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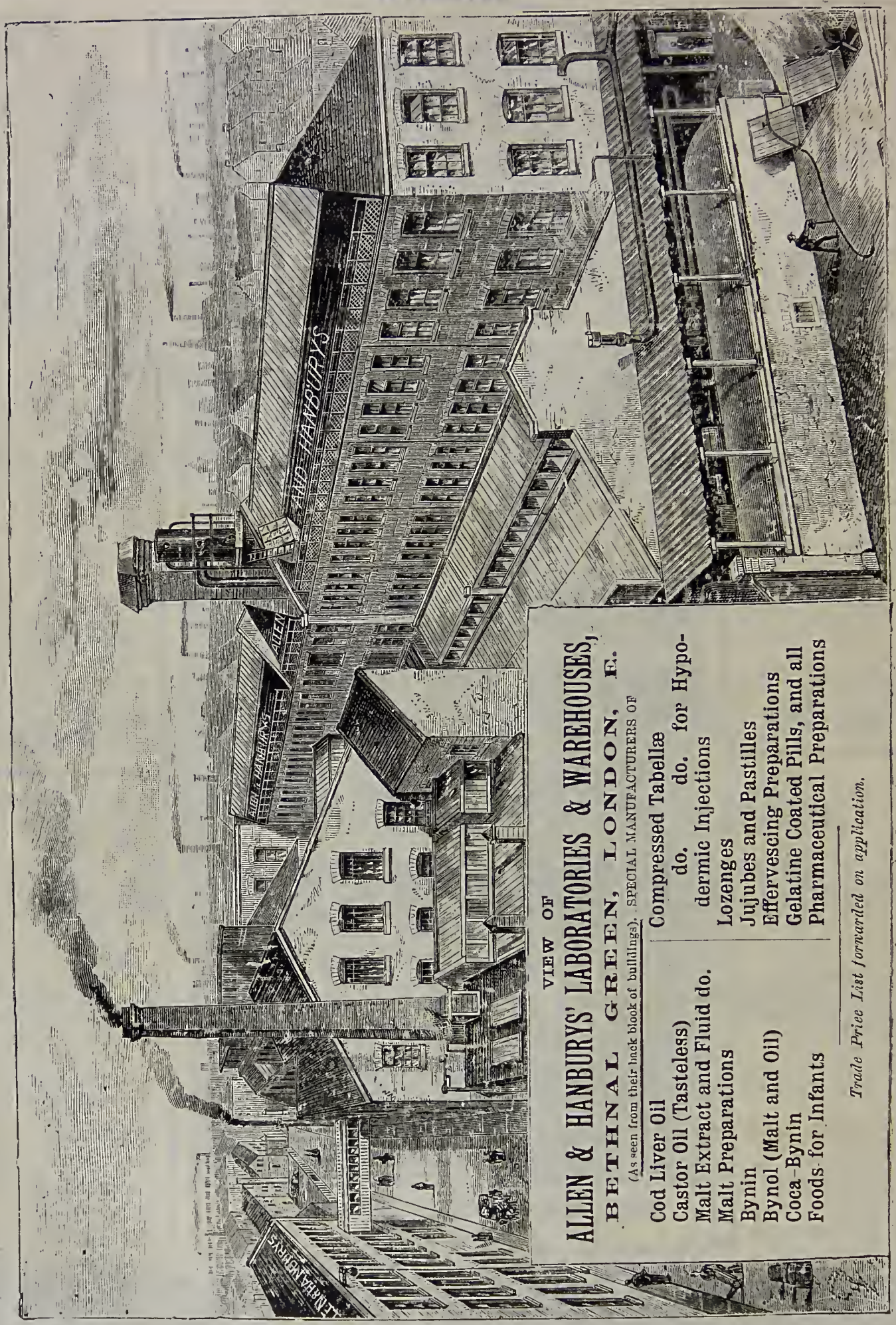
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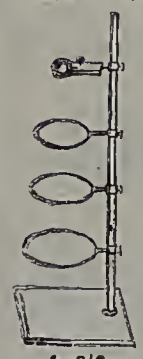
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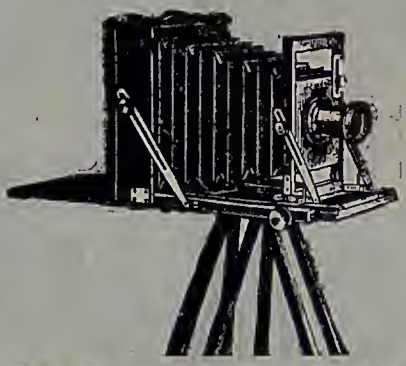

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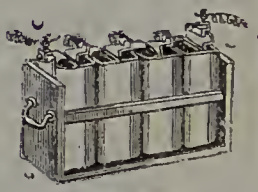
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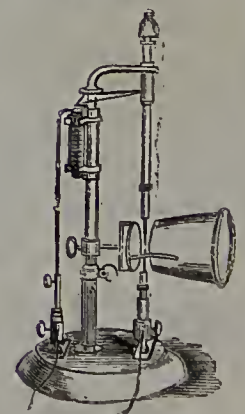
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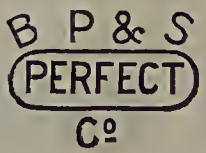

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The Chemist and Druggist SUPPLEMENT

Businesses Wanted.
Businesses for Disposal.
Premises to Let.
Auction Sales.

SATURDAY, MARCH 19, 1892.

Partnerships.
Situations Vacant.
Situations Wanted.
Miscellaneous.

A Copy of this Supplement is inserted in every number issued of "The Chemist & Druggist."

PLEASE NOTE.

ADVERTISEMENTS for this Supplement must be received at the Office, 42 CANNON STREET, E.C., not later than **5 o'clock on Thursday Evenings,** for insertion in the current week's issue.

Advertisements must be prepaid. Remittances by post may be made in stamps, or by postal order made payable to "EDWARD HALSE," and crossed MARTIN'S BANK (LIMITED). To ensure prompt attention address all communications, endorsed "Supplement," to The PUBLISHER of "THE CHEMIST AND DRUGGIST."

OFFICES: 42 CANNON STREET, LONDON, E.C.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—**LONDON.**—Thickly populated locality; good-class Retail and Dispensing, with good appointment attached; returns nearly £1,400 yearly; *profits above the average*; well-fitted shop and good house; about £1,300 required.

2.—**LONDON, E.**—Retail and Dispensing Business of good class; held by vendor many years; now retiring from the business; returns about £1,300 yearly, *with good profits*; good personal introduction will be given; about £1,150 required.

3.—**LONDON, S.W.**—Old-established good-class Retail and Dispensing Business; returns nearly £450; good stock, large shop; every investigation allowed; terms, with full particulars, on application.

4.—**LONDON, S.E.**—Old-established good-class business; returns average over £900 yearly, *with good profits*; large and convenient premises; terms, small premium and valuation, to be arranged.

5.—**WARWICKSHIRE.**—Central situation; very good Dispensing and Prescribing Business; returns £700 yearly; *profits above the average*; well-fitted shop and good stock; good house, held on lease; about £480 required.

6.—**MIDLANDS.**—Good town; Retail and Dispensing, with small Wholesale attached; returns £2,350 yearly; first-rate premises, with every convenience; about £1,050 required cash.

7.—**SOUTH OF ENGLAND.**—Health resort; Light Retail and Dispensing Business, situate in a good position in a fashionable town; returns over £400; convenient house, held on lease; about £375 required.

8.—**SOMERSET.**—Very attractive locality; good-class Dispensing Business; no heavy trade; returns nearly £700 yearly; large well-fitted shop, and good stock; very good house and large garden; premises held on lease; price about £600.

9.—**DEVON.**—Unopposed business; situate in an agricultural district; good-class Prescribing and Retail, some Stationery; returns £500 yearly; *very profitable*; good 8-roomed house, and well-fitted shop; low rental; large garden, &c.; price £350.

10.—**MIDLAND TOWN.**—Good-class Retail and Dispensing, with a large proportion of Proprietary Business; held by vendor more than 20 years; returns nearly £1,200; *profits about 50 per cent. net*; price required about £1,000; applicants must furnish London reference.

11.—**HOME COUNTY.**—Light Retail and Prescribing; no heavy business; returns about £400; *very good profits*; the business has no material opposition; rent low; comfortable 8-roomed house; garden, warehouse, &c.; price £300.

12.—**SCARBOROUGH.**—Ready-money Business; easily extended; returns £6 per week; has been neglected; the business is well situated, and offers scope for an enterprising man; about £200 required.

13.—**BUCKS.**—Old-established Mixed Retail; situate in good position; capital house, and roomy business premises; returns £1,250 yearly; *very good profits*; price about £1,100, or valuation if wished.

14.—**MIDLAND TOWN.**—Suburban; Retail and Dispensing Business; returns about £1,300 yearly, *with good profits*; good business premises, and large residence; about £1,300 required.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

NOTICE.—*Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital. Full particulars on application.*

SPECIAL NOTICE.—TO PRINCIPALS AND ASSISTANTS.

MESSRS. ORRIDGE & Co. Register Vacancies for Situations FREE OF CHARGE.

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References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

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F. J. Brett is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

Stocks and Fixtures Bought for Cash.

LINCOLNSHIRE.—Good-class Retail, with Wines and Spirits in pleasant and improving market town; returns £1,100; price about £800.

WALES, S.—Prescribing and Retail; returns about £800; price about £600.

WEST.—Returns nearly £2,000; handsome shop; good-class Retail, with Gilbey's agency; price about £1,600, or small goodwill and valuation.

BIRMINGHAM.—Returns £700; Dispensing, Prescribing, and Light Retail; price £450.

DEVON.—Light Retail and Dispensing; returns £400; can be much increased; price about £330.

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CHEMISTS' TRANSFER AGENTS & VALUERS,

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Established 1870.

VALUATIONS and TRANSFERS conducted in any part of the United Kingdom. Twenty years' practical experience.

NO CHARGE TO PURCHASERS

HOME COUNTY.—Large market town; good-class Light Retail, Dispensing, and Prescribing business; returns £2,200, increasing yearly, convenient house, with large garden; price £2,000.

SURREY (15 miles out).—Old-established Light Retail and Dispensing business; returns £750; net profit £300; low rent on lease; selling through ill-health; price £600 or offer.

SOMERSET (Coast).—Fashionable town; first class Dispensing business in a splendid position; now under management; elegantly-fitted pharmacy, heavily stocked; price £550.

SOMERSET.—Fashionable inland resort; good-class Light Retail and Dispensing business; returns £600; full prices; corner shop; good house; increasing locality; price £540.

SOUTH COAST.—Fashionable resort; well established Light Retail and Dispensing business; returns about £1,000, steadily increasing, satisfactory reasons for selling; price £900, or offer.

GREAT YARMOUTH.—First-class Retail and Dispensing business; returns £650; under management; full prices; principal would do £1,000; elegantly-fitted shop, well stocked; good house; price £525.

NORTH OF ENGLAND.—Old-established Mixed Retail, Dispensing, and Prescribing Business; returns £1,800, with good profits; will be sold at valuation, about £1,200, or reduced.

LINCS.—Light Retail, Dispensing, and Prescribing business; returns £800, net profit £300; convenient house, large well-fitted shop, good stock; business steadily increasing; price £650.

MIDLANDS.—Good market town; Retail, Dispensing, and Prescribing business; returns about £1,000, with good profits; large well-fitted shop, good stock; convenient house; garden; price £700.

LONDON, N.W.—Light Retail and Dispensing business; good-class locality; returns £950, good prices; large shop, well-fitted and stocked; 9 rooms; private entrance; price £700.

LONDON, W.—Death Vacancy.—Good-class Retail and Dispensing Business; under management for years past; returns £530, principal should do much more; price £400, or offer.

Messrs. Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

GOOD Wholesale Drug and Essence Trade for sale; only on account of proprietor's continued ill-health. Apply G 41, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

LONDON, E., near London Docks.—For immediate disposal, through death, a small, old-established Retail Chemist's; could be greatly increased; low rent; all at £120. Hogwood, 25 Plough Road, Rother hithe, S.E.

£2,000.—A Genuine old established Agricultural and Family Business, in a country town in the West of England. Apply, A. B., Messrs. Meggeson & Co., Miles Lane, Upper Thames Street, London.

YORKSHIRE.—For immediate disposal, the House, Shop, Business, and Stock-in-Trade of a Chemist and Grocer; established towards of 50 years; good position in Market Place. Apply, W. T. Pearson, Leyburn, Yorks.

Messrs. CROCKER & CO.

Trade Valuers, Transfer Agents, and Accountants,

15 WALBROOK, E.C.

MIDLANDS.—Old-established good-class Country Retail, Prescribing, and Dispensing trade; returns £800; net profit £300; price £650 or valuation; terms may be arranged handsome pharmacy, good house and nice garden. This Business has a most excellent future.

SURREY.—Light Retail and Dispensing; returns £800; price £650; good house; handsome pharmacy; agency pays rent. (309.)

MIDLANDS.—Retail, Prescribing, and Dispensing (a little heavy); under management of assistant; returns £750; price £300. (R 19.)

DEVONSHIRE.—Country Retail, unopposed; returns £550; rent £20; price £350; open to offer; good house and garden. (R 18.)

YORKSHIRE.—Light Retail and Dispensing; returns £550; price £320; plenty of scope for pushing man. (R 17.)

LAKE DISTRICT.—Unopposed Country Retail and Dispensing, with a little heavy trade; returns £700; price £350; very profitable.

MIDLANDS.—Market town; old-established Country Retail, Dispensing, and Prescribing; returns £800; net profit £300; price £650.

KENT COAST.—Good sound Retail and Dispensing Trade, in busy part of favourite health resort; returns £650; price £550. (R 16.)

HOME COUNTY.—Unopposed Retail and Dispensing Trade, with a little Stationery and Post-office; net profit not less than £300 a year; price £125 goodwill and valuation.

NEAR LONDON.—Country Retail, Dispensing and Prescribing trade; returns £400; price £350; good house and garden. (R 14.)

HANTS.—Light Retail and Dispensing; returns £400, and increasing; large and convenient premises; long lease, low rental; price £200.

ESSEX.—Light Retail, Dispensing and Prescribing trade; returns £720; price £675; rent £45; 11-roomed house and large garden. (359.)

KENT.—Family and Dispensing trade, with Post-office; returns over £800; price £600; large house and garden. (903.)

NORTH OF ENGLAND.—Good-class Dispensing; returns £1,400; price £1,200; most desirable residence in pleasant locality. (344.)

HOME COUNTY.—Good-class Dispensing trade, in best part of pretty market town; returns £600; price £550; worth attention. (306.)

MERIONETHSHIRE.—Retail, Dispensing, and Prescribing trade; returns £675; price £450, or valuation; very desirable residence; recommended.

BEDFORDSHIRE.—An old-established Retail and Prescribing trade; returns £450. price £100.

LONDON, S.W.—Branch Retail and Dispensing; returns £350; price £250; an exceptionally good thing.

LONDON, S.E.—Retail and Prescribing trade; unopposed position; returns £500; price £400; rent £40; good house, &c. (313.)

NO CHARGE TO PURCHASERS.

VALUATIONS A SPECIALITY. TERMS ON APPLICATION.

BUSINESSES FOR DISPOSAL—Continued.

BERKS.—An old-established Business in an agricultural district for immediate disposal; returns between £500 and £600; capable of great extension; price £450. "Lavender," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

TO DRUGGISTS.—For immediate disposal, old-established Prescribing Mixed Retail Business, in Leeds; main thoroughfare; corner shop; two large windows; doing good trade. Address, "Huntrods," 10 Spring Grove Terrace, Burley Fields, Leeds.

ABOUT £1,200 required for a good Chemist and Druggist Business returning from £1,300 to £1,400 per annum; a very exceptional chance, with Wine and Spirit Licence attached, &c. For particulars apply, A. B. C., c/o Messrs. Hirst, Brook & Hirst, Leeds.

SOUTH WALES.—Light Retail, Prescribing, Dispensing, and Teeth-extracting; returns over £600; good proprietaries; splendid position, main thoroughfare; strictest investigation solicited; Gilbey's agency. "Sanitas," c/o Herrings & Co., 40 Aldersgate Street, E.C.

£350.—London, N.W.—Main road; excellent position; returns £700; good-class Dispensing; only Patents cut; a good opportunity for young man commencing, as part of house can be re-let. 278/8, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

30 MILES from London.—Unopposed Village Retail and Prescribing Business; returns £8 to £10 weekly; full prices for everything; rent and taxes £22; nice house and garden; owner leaving the trade; price £200. "Cnprum," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

IMMEDIATE DISPOSAL.—Busiest main road of Hull; Light Retail, Prescribing, and Dispensing Business; mahogany fittings, and well stocked; returns £300, capable of increase; cause of sale owner taking larger concern; thoroughly genuine; full particulars to *bonâ-fide* applicants. "Stow," 117 Hessle Road, Hull.

NORTH WALES, on the borders of Shropshire.—A genuine Retail, Prescribing, and Dispensing Business, with a little Dentistry attached; same hands 21 years; returns £635; net profits, £260; rent £22 10s.; reason for disposal, wanting a larger concern (double); price £550; wholesale drug reference, Messrs. Battley & Watts, Cripplegate, London, to whom address, "Alpha," c/o that firm. Large house and private door, &c.

BUSINESSES FOR DISPOSAL—Continued.

CHEMIST'S Business, in a populous neighbourhood; a chance for a pushing man with a small capital. G. W., 117 Lever Street, Goswell Road, E.C.

LONDON Suburb, S.W.—Good class locality; Retail and Dispensing Business with Prescribing; returns last year £1,130, with nearly £500 net profit; shop well fitted and good stock; large house attached; about £900 required. Full particulars on application at Messrs. Orridge & Co's offices, 32 Ludgate Hill, London, E.C.

UNOPPOSED Village Business, situated few miles from Lowestoft; no stores or cutting grocers: returns £700; full prices obtained; light retail trade, nothing heavy or mixed; good house, large garden, stable, &c.; price £450, or offer; full investigation allowed. W. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BIRMINGHAM; thickly-populated middle-class district; Prescribing and Light Retail, with excellent dwelling-house; returns over £550, and exceptional profits; one-third own Proprietaries; good prices; grand opening for pushing man; can be immensely improved, vendor being absent half the day. Newton Medical Hall, Vauxhall, Birmingham.

£225, or offer; through serious illness; Light Retail and Dispensing Business; good-class Northern suburb; excellent corner position; very convenient residence; bath-room; garden; rent £40, let off £42; carried on solely under management; value of stock and fittings only. "Rhodii," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO HERBALISTS.—A well-established Business, very profitable: average one thousand prescriptions yearly; to be disposed of through the recent death of proprietor; handsome shop, main thoroughfare, N.E., fully stocked (no patent medicines); average returns, nearly £500; long lease, rent £65. Address, "Liquor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUCKS.—Chemist's Business for sale, at once; newly stocked and fitted; railway centre; premises suitable for making Soda Water, for which good opening; fast growing district, 3,000 population; no opposition; good reasons for disposal; good opening for Branch or new beginner; price £100, or valuation. "Gentian," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GENUINE Retail Drug Business for sale; established 20 years ago by present proprietor, who is retiring from retail: long lease, as lock-up shop, or with house; 10 minutes from London Bridge, Surrey side; thickly populated; very brisk ready-money drug trade, with two or three good proprietary lines. Address, "Practical Chemist," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

THE Riviera.—In consequence of the death of the late W. A. Powell, the English Pharmacy, so successfully conducted by him at Hyères, France, is for sale; the pharmacy is artistically fitted, well stocked, and admirably adapted for carrying on the highly lucrative Dispensing Business which is attached; Hyères is the nearest winter station to England; the climate is perfect; the connection already includes a large proportion of the British aristocracy, and the Queen's visit will make Hyères increasingly popular; price £1,400. Address, Mrs. Powell, The English Pharmacy, Hyères, France.

BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

IMMEDIATELY, a good reliable Dispensing and Light Retail Business, returning about £300 a year; in or near the Home Counties; a fair price will be paid, cash down, to secure a sound business with decent house. "Minor," c/o Mr. Kidman, 501 New Cross Road, London, S.E.

IMPORTANT to Chemists.—£20 gratuity will be paid by a doctor for information of an opening for practice; London, London suburb, or large provincial town preferred, but a country opening considered; must bear investigation. Address, in strict confidence, Dr. French, 1 Dartmouth Hill, Greenwich, London, S.E.

TENDER.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

ST. MARY'S HOSPITAL, W.
CONTRACT FOR DRUGS AND CHEMICALS.

THE Board of Management is prepared to receive Tenders for the supply of Drugs and Chemicals for the three months ending July 15 next. Forms of Tender can be obtained at the Secretary's office. Tenders must be delivered in sealed envelopes, accompanied by samples when so required, addressed to the Secretary, and marked "Tender for Drugs," on or before Saturday, 26th March, at noon. The Board does not bind itself to accept the lowest or any tender. By order,

15th March, 1892. THOMAS RYAN, Secretary.

PARTNERSHIP.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

A YOUNG gentleman, qualified, is desirous of meeting with one similarly situated, to take over a thoroughly genuine and most profitable seaside Business in which advertiser is now working: capital required about £250; returns about £1,000; profits exceptionally large. Letters, in first instance, to "Minor," 16 Courtnell Street, Bayswater.

FOR SALE.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

FOR sale, Fittings of a Chemist's shop; cases, &c. Address, W. D. John, Merchants' Exchange, Cardiff.

FOR sale (Manchester), prompt clearance and cheap.—Druggist Counter, Shelves, two Glass Counter Cases, two large Storing Glass Cases, Desk, Mirror, Clock, Weights, Scales, and Sundries. Apply, Lahon Spencer, 23 Pall Mall, Manchester.

CHEMIST'S Fittings for disposal; counter, mahogany drawers, show-jar, carboys, and desk. Also a completely-fitted up Shop, old-established, for immediate transfer, for £50. "Vendor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EXCEPTIONAL opportunity for beginners or those about to open a Branch.—For sale, entire Fittings of a Chemist's Shop, good as new; Carboys, Window Enclosure, Counters, Wall Cases, Trade Utensils, &c.; Stock, if desired; open to any reasonable offer, or valuation. Apply, "Chemist," 2 Eckstein Road, Clapham Junction.

TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

A GOOD Shop, House, and Premises, in a good suburban part of Southampton, to Let; an excellent opening for a good Chemist or young beginner; small rental. Apply, T. White, 42 and 43 Bedford Terrace, Southampton.

GOOD opening for Chemist, in rising neighbourhood.—Shop to Let; small stock of Grocery, Wines, and Spirits; no goodwill; population, 3,000; 200 more houses to be built this spring (own property); low rent to good tenant. Newman, Grocer, Wolvertou, Bucks.

MODERN House and Shop to let, suitable for a Chemist and Druggist; main road; nothing of the kind near it; good opening for Dental practice; a capital basement, would let off or be useful for manufacturing purposes. Apply, 92 Jamaica Road, Bermondsey, S.E.

A GOOD Opening to start a Chemist's Business is at 523 King's Road, Chelsea; low rent; no opposition; thickly-populated neighbourhood; shop partly fitted up; lodgers already in who about pay the rent. It is requested that no gentleman will apply who is not fully qualified, and has not a small capital to commence business. Address, Mr. Shaw, House Agent, 91 Marlborough Road, London, S.W.

ST. LEONARDS-ON-SEA.—Excellent Shops, with Warehouses beneath, to be LET on LEASE; newly erected, with well-arranged and comfortable dwelling-houses over, in important thoroughfare and rapidly-rising, thickly-populated, well-trafficked neighbourhood, near central railway-station where 70 trains call daily; good sanitary arrangements; can be finished off to suit trade; opening for a Chemist and Druggist; houses over contain two sitting, five or six bedrooms, and good offices; rent for house and shop £85 per annum; and one large triple shop and house £180. Apply to Mr. John Bray, Estate and Business Agent, Colonnade, St. Leonards-on-Sea, and 28 White Rock, Hastings. Shops to Let and Businesses for Disposal.

SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

JUNIOR Assistant in good-class cash Retail and Dispensing business. Apply to the Bath Drug Co., 11 Abbey Churchyard, Bath.

WANTED, a good Assistant (indoors). Apply, stating age, reference, and salary, to J. Day, Chemist, Savile Town, Dewsbury.

IMPROVER in a Light Retail and Dispensing business. Send full particulars, with photo, to Wing, Pharmacist, Weston-super-Mare.

IMMEDIATELY; a Junior Assistant: also an Improver; state age, height, and salary; enclose carte. J. Johns & Son, Chemists, Southampton.

WANTED, immediately, Junior or Improver for Country business. Apply, E. Handford & Son, Chemists, 1 High Street, Torrington, North Devon.

SITUATIONS OPEN—Continued.

DISPENSER, 21 to 25 years (qualified), wanted for British Honduras. Particulars from Duncan, Flockhart & Co., 52 North Bridge, Edinburgh.

WANTED, gentlemanly Assistant for good suburban business; two kept; must be capable of taking charge, and qualified preferred. J. W. Black, Chemist, Sydenham.

JUNIOR, age about 20, of good address and references; full particulars, class of experience, and salary required, to Gibson, Chemist, P.C., London Street, Reading.

SMART Travellers wanted, experienced in addressing Medical Men. Apply, personally, only between 10 and 12, The Liquor Carnis Co., Limited, 50 Holborn Viaduct, London, E.C.

WANTED, Chemist's Assistant, for a Light Retail and Dispensing business; good reference required, and lowest salary stated. Apply, Wilsdon, High Street, Burford, Oxon.

QUALIFIED Assistant wanted, to take charge of branch; aged 23 to 26; single; good-class suburban Dispensing business. Richardson, Scftou Park Pharmacy, Ullet Road, Liverpool.

WANTED, Assistant, qualified; aged 30 to 40; must have undeniable references; live indoors, sleep out. Apply from 9 to 10 A.M. or 6 to 8 P.M., W. Potter, Post Office, Plaistow, London, E.

IMPROVER or turnover Apprentice for Country Retail. Prescribing and Dispensing business; time for study and recreation; no Sunday duty. Apply, Galloway, Qualified Chemist, Yeadon, nr. Leeds.

IMMEDIATELY, Junior in Country business; salary. £25; must have fair knowledge of Dispensing. Apply, enclosing carte and particulars of experience, to Smart, Pharmaceutical Chemist, Steyning.

MANAGER (outdoors) for brisk Cash Business, N.W.; must be qualified, experienced, and well recommended by last employer. Apply, stating full particulars, to J. H. Lewis, 22 & 24 Gt. Portland Street, W.

WANTED, for July 1 or sooner, in Hamburg, a good English and French Correspondent for a Chemical works and Wholesale Drug business. 248/28, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, at once, qualified Manager for Mixed business. State salary required per week, and enclose references and photo, which will be returned, A. Cox, Chemist, 65 Broad Street, Blaenavon, South Wales.

WANTED, Improver or Junior; outdoors; good references indispensable; time for study by arrangement. Apply, stating age, height, experience, salary required, to F. J. Richards, 157 Dudley Road, Birmingham.

WANTED, Assistant from 20 to 22, used to a respectable Country business, who can be well recommended by previous employer. Apply, enclosing carte (to be returned), with full particulars, to D. Prosser, Sheerness.

WANTED, a qualified elderly man, as Assistant (indoors); comfortable home, or evenings. Apply, by letter only, stating age, qualification, and lowest salary, to J. Rex, 30 Aliwal Road, Clapham Junction, S.W.

A RELIABLE Assistant; indoors; must be neat and energetic; abstainer preferred; weekly half holiday; send photo, with fullest particulars. W. T. Oldham & Son, Chemists and Opticians, Market Place, Wisbech, Cambs.

WANTED, immediately, qualified Assistant (indoors); knowledge of photography preferred; capable of taking entire charge; first-class references required. Apply, stating terms, to S. Grover, 3 Croxted Road, West Dulwich.

WANTED, a Senior Assistant, indoor, about 25 years of age, for a good-class Country business; must be a good Dispenser and counterman; satisfactory references indispensable. Apply, Morgan & Lawley, Chemists, Kidderminster.

DENTISTRY.—Vacancy for Pupil in large practice where Crown and Bridge work forms about half the work done; Porcelain Gum work, Gold-assaying, and Amalgam-making also done; fee 120 guineas. Address, 6 Park Crescent, Torquay.

WANTED (shortly), an active, competent Assistant, thorough business man, to join another in eventually succeeding to a Chemist's business making about £850 net profit, and capable of considerable extension: experience, abilities, and character of more consideration than capital. Applications not containing full particulars, or not replied to within 7 days, declined. A. B. C., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMMEDIATELY, an Assistant, about 25; good Dispenser. Apply, stating salary, height, &c., photo if convenient, to Lancaster & Co., 8 High Street, Croydon.

JUNIOR or Improver for Light Retail and Dispensing Business in Midlands. Apply, stating age, height, and salary required, W., 71 Tollington Park, Holloway, London N.

JUNIOR Assistant wanted for about three weeks from end of this month, for Dispensing and Retail. Apply, Wilson & Co., Chemists, 80 Lamb's Conduit Street, London, W.C.

WANTED, an Assistant, 20 to 22, for a Light Retail and Dispensing Business. Apply, with full particulars and salary required in or out doors, Leppard, Thames Street, Kingston-on-Thames.

WANTED, at once, Junior Assistant, about 22, for small, light Business in the country; good home guaranteed. State experience, height, salary, and references, and enclose carte (to be returned; abstainer preferred. Andrew, Chemist, Rainham, Kent.

FIRST week in April.—Junior Assistant, about 23, for Light Retail and Dispensing business, W.; good references indispensable; send energetic particulars, enclosing carte (which will be returned). Address, "Chemist," Messrs. Herrings & Co., 40 Aldersgate Street.

WANTED, at once, a Traveller for town and country trade; previous experience in travelling essential; state age, whether married or single, salary required, and enclose photo. Apply, P. Jeyes & Co., Wholesale and Retail Chemists, 6 The Drapery, Northampton.

IMMEDIATELY.—An active, gentlemanly Assistant, where only one is kept; a quick and accurate Dispenser, and accustomed to a good-class business. Personal application preferred, or enclose carte, giving all particulars and salary required, "Chemist," 14 Highbury Park, N.

ASSISTANT (outdoors); one accustomed to high-class store trade preferred; must be a thoroughly good pushing Counterman, well up in Dispensing, and of good address. Apply, with full particulars, to Mr. Goodwin, The Plymouth Drug Company, 20 Cornwall Street, Plymouth.

SECOND HAND wanted for old-fashioned Prescribing business; must be of mature appearance; age not under 30; permanent berth offered to all-round energetic man; outdoors; preference given to married man, and those furnishing fullest particulars; photo desirable. A. Hagon, Chemist, Cardiff.

IMMEDIATELY, a steady, industrious Assistant, with a good knowledge of Mechanical Dentistry, and who, when not engaged in the workroom, could assist in the ordinary duties of a retail Chemist. State salary required (outdoor) and usual particulars to A. Smith, Chemist and Dentist, Newport, Mon.

WANTED, for Mixed Agricultural business in small country town, a thoroughly qualified, energetic man as Manager; good opening for Dentistry; unexceptional references required. Personal application preferred, or apply, stating full particulars and enclosing photo, to Mrs. Atkinson, Much Wenlock, Salop.

QUALIFIED Assistant (indoors), about 26, for Country business in Cathedral town; apprentice kept; must have good Family, Dispensing, and Agricultural experience, and be able to extract teeth. Full particulars as to age, height, salary required (enclosing photo, to be returned), to C. Woollons, 28 Kilburn Lane, W.

WANTED, an indoor Assistant; Tooth Extractor and abstainer preferred; will be required to live at branch with another assistant and housekeeper; a comfortable home and permanency to energetic and trustworthy person. Apply, with usual particulars, W. Aspinall, The Pharmacy, Ashton-in-Makerfield, Lancashire.

QUALIFIED Assistant; single; about 25; for Mixed Country business; outdoors; no Sunday duty; good references required as to character and business qualifications; permanency to a suitable man. Apply, stating salary required, with references and photo (returned). An Improver also wanted. Gibson, Burton-on-Trent.

WANTED, an Assistant. Minor qualification, with a view to Partnership, in an old established Drug and Grocery business, doing a first-class trade, small country town; a young man of high character, good business habits, and small capital, will be liberally dealt with; none other need apply. Address, "Dens," c/o Southall Bros. & Barclay, Birmingham.

PARISH OF ST. GEORGE-IN-THE-EAST.

ASSISTANT DISPENSER AND MEDICAL OFFICER'S CLERK.

THE Guardians of the above Parish will meet on Friday, the 25th instant, at 4 o'clock P.M., in the Board Room, Raine Street, Old Gravel Lane, E., to appoint an Assistant Dispenser and Medical Officer's Clerk for the Infirmary; salary £100 per annum, with dinner and tea.

For particulars as to duties apply to the Medical Officer, at the Infirmary; and for forms of application apply to me, as under. Applicants must be qualified.

By order. J. R. BROWNE, Clerk.

Clerk's Office,
Raine Street, Old Gravel Lane E.,
15th March, 1892

SITUATIONS OPEN—Continued.

REQUIRED, immediately, a competent Junior, about 21, used to town business. Apply, with full particulars and photo W. V. Wright, Broadway, Hammersmith.

QUALIFIED Assistant (outdoors); duties: dispensing only; one evening off weekly from 5 P.M.; salary £9 per month. All particulars of previous engagements, age, height, and carte-de-visite to Wand, Chemist, Leicester.

WANTED, young man (Protestant) to take charge of Drug counter in provincial town, North of Ireland; must be well up in treatment of horses, cattle, &c., and be thoroughly conversant with the Drug trade generally. Apply, giving age, experience, references, copies of testimonials, and salary expected, to R., Thos. McMullan & Co., Wholesale Druggists, Belfast.

SITUATIONS WANTED.

1s. *for twelve words;* **6d.** *for every six words beyond.*

JUNIOR; London only; 20½; 5 years' experience. Comrie, 223 Lower Road, S.E.

JUNIOR (23); tall; qualified; outdoors preferred. A. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London.

MANAGER or Temporary; aged 36; qualified. "Beta," Bambridge, Chemist, East Dereham.

ASSISTANT (London), with time for classes. Bloor, 5 Liverpool Road, Newcastle, Staffs.

SITUATION, with time for study for Major, or short hours. X. Y., 7 Leazes Place, Durham.

BRANCH Manager or Locum; qualified; outdoors. "Alpha," 38 Market Place, Penzance.

JUNIOR (20); tall; disengaged; 5 years' good-class experience. Houghton, Slough, Bucks.

LOCUM-TENENS; 40; disengaged; qualified. 51 Waterloo Road, Smethwick, Birmingham.

BRANCH Manager; outdoors; locum-tenens or permanency. Davies, 100 Brixton Hill, London.

TEMPORARY or permanent; disengaged, aged 25, good extractor. 2 Horton Street, Lewisham.

DISPENSER to Doctor in good-class practice; outdoors. H., *Chronicle* Office, Nantwich.

JUNIOR; 21; disengaged; abstainer; Western county preferred. G., 14 Chatham Place, Brighton.

ASSISTANT or Dispenser (22); 6 ft.; London; indoors; Extractor. "Assistant," 3 Parade, Hanwell.

AS Dispenser to a Surgeon, temporary or otherwise; married. A. B., 2 Ivy Lane, Paternoster Row, E.C.

AS Assistant or Dispenser to Doctor; steady, industrious; in or out. "Chemist," 252 West Street, Crewe.

ASSISTANT; experienced; good bookkeeper; time for study. "Pharmacy," 210 Burdett Road, Bow.

MANAGER or Locum; aged 38; qualified; abstainer. "Chemicus," 3 Woburn Place, Russell Square, W.

JUNIOR; 20; 5 ft. 8 in.; 4 years' experience; good reference. H., 6 Silver Street, Trowbridge, Wiltshire.

MANAGER or Assistant; London; qualified; Extractor; married. "Chemist," 13 Dalyell Road, Brixton.

ASSISTANT or Branch Manager; qualified; aged 26; outdoors preferred. "Laboritas," Fishlake, Doncaster.

LOCUM; Trinity Square, Llandudno; Manager or Senior. Present address, "Locum," Chemist, The Cross, Nailsworth.

BRANCH or Assistant; Prescriber; experienced; 25, unqualified. "Extractor," West Cottage, West Town, Dewsbury.

JUNIOR (19½); nearly 4 years' experience; in or near London; good references. Apply, 62 Victoria Road North, Southsea.

AS Improver or Junior; 3 years' experience in a first-class Retail and Dispensing business. Address, J. G. Padwick, Redhill.

MINOR man, aged 43, married, requires situation as Manager or Senior. Registered Dentist, Whittlesea, Peterborough.

DISPENSER to Doctor, Surgeon, or otherwise; moderate wage; good experience. B., General Post Office, Manchester.

AS Junior; 20; 5 years' experience; Churchman and abstainer; London preferred. E., 1 Queen's Square, Upton Park, E.

ASSISTANT or Manager; Minor and Apothecaries' Hall; Extractor; good references. "Chemist," 4 Pinderfield Road, Wakefield.

ASSISTANT; in North Midlands; aged 26; qualified; ready April 1. "Notts," Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

JUNIOR.—Wanted, a situation in a good business; Lancashire preferred; references good. Field, 87 Regent Street, Leamington.

WHOLESALE.—Situation as Invoice or Ledger Clerk, in or near Bath preferred; aged 20. Edwards, 19 Craven Street, Newbury.

ASSISTANT; 23; Minor qualification; experienced; no objection to going abroad. "Statim," 5A Milverton Street, Kennington, S.E.

JUNIOR; 21; 5 years' experience; time for study; London preferred; disengaged April 15th. "Abstainer," 22 High Street, Notting Hill, W.

WHOLESALE Druggists; situation required by steady man. "Percolator," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR, or Improver, in good-class business; indoors; aged 21; abstainer; Midlands preferred. Apply, Greenwood, Chemist, Lye, Stourbridge.

JUNIOR (23), in good-class business; good Counterman and Dispenser; unqualified; outdoors preferred. A. S., 60 Welch Row, Nantwich.

MANAGER or Locum; Chemist and Dentist disengaged. "Experientia," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR, London (21); 5 ft. 10 in.; good experience and references; time for study preferred. Pearson, 67 Kelmscott Road, Clapham Junction, S.W.

EVENING employment required by a competent, experienced Chemist's Clerk; terms moderate. "Delta," 3 King William Street, Strand.

TOWN Traveller, with connection, wishes to communicate with firms having good lines. "Cornucopia," 115 Melbourne Grove, East Dulwich, S.E.

PART-TIME Assistant or Dispenser; temporary; permanent; aged 27; good experience; well recommended. "Chemist," 49 Second Avenue, Paddington.

WHOLESALE.—Situation required by young man; aged 25; wet counter preferred; good reference. W. P., 13 Cronfield Villas, West Norwood, S.E.

ADVERTISER, middle aged, qualified, desires situation as Manager or Senior; outdoors; country trade preferred. "Veritas," 43 St. Peter's Road, Leicester.

OUTDOOR Assistant or Branch Manager; Dispenser, Prescriber, Extractor; thoroughly experienced; aged 29; married. Roberts, 14 Vicar Street, Kidderminster.

ASSISTANT; indoors; London preferred; time for evening lectures twice a week; able to take charge. "Radix," 27 Smeaton Street, North Ormesby, Middlesbro'.

BRANCH Manager or Assistant; 25; can Prescribe and Extract; tall; Mixed country or village trade preferred. F. B. White, Chemist, Ibstock, Ashby-de-la-Zouch.

LOCUM-TENENS; during absence or otherwise; experienced, qualified, steady, and reliable; best references; disengaged. "Extractor," 28 Florence Road, S.E., London.

RESPECTABLE person desires situation as Stockkeeper and to put up proprietary articles; wholesale or retail; moderate salary; highest reference. H., 21 Smollett Street, Liverpool.

TO SURGEONS and Chemists.—Management of Branch, or Surgeon's Retail; experienced; first-class testimonials. "Extractor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ADVERTISER (21), with good Retail experience, desires entering Wholesale or Stores; any capacity; satisfactory references; London or near preferred. F., 377 New North Road, Islington.

LABORATORY, Wholesale.—Advertiser seeks re-engagement to make and assist putting up specialities and proprietary articles; experience. "Koko," c/o Messrs. Lell & Briant, Glass House Yard, Aldersgate Street, London, E.C.

SITUATIONS WANTED—Continued.

AS Improver; in Midlands preferred; aged 18; height 5 feet 8 inches; passed Preliminary; abstainer; served 3 years' apprenticeship. Apply, W. H. Round, care of "Chemist," Market Place, Bedale, Yorkshire.

ASSISTANT or Manager (in or near London preferred); 14 years' varied experience; extractor; aged 29; good references; married. Apply, H. G., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE; outdoors; situation required as Laboratory Assistant or Wet department; good experience in England and Ireland; 7 years in present employment; first-class references. J. W. Thwaites, St. Luke's, Cork.

GERMAN Assistant, aged 22, speaking French fluently and English moderately well, competent and reliable Dispenser, wants engagement with an English Chemist, to improve himself in English, for the 1st April; highest references. Address, H. Kammerer, Pharmacie Reinu, Lausanne, St. Pierre, Switzerland.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading which can be obtained on application.

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WANTED, a Canvasser to call on Chemists, soliciting orders for a Proprietary Article; those now on the rounds will do. Apply, Alfred J. Learner, Crownthorpe, Wymondham, Norfolk.

PROPRIETARY Article for disposal; title registered; well-established; regular sale by Wholesale houses and Chemists throughout England; responds freely to advertising, but proprietor has not had time to do justice to it; extremely profitable, easily put up (not pills or mixture); wants energy and life more than heavy advertising; would either sell outright for very nominal sum, or negotiate on a partnership basis; proprietor would guarantee to buy stipulated large quantity yearly. Address, "Syntax," c/o W. Kemp & Son, Wholesale Druggists, Horncastle.

In the High Court of Justice. Chancery Division. Mr. Justice Chitty.
1891. S. No. 0238.

In the matter of the Soden Mineral Produce Company (Limited and Reduced); and in the matter of the Companies Acts, 1867 and 1877.

NOTICE is hereby given that by an Order made by Her Majesty's High Court of Justice, on the 27th day of February, 1892, in the above-mentioned matter, it was ordered that the Special Resolution passed at an Extraordinary General Meeting of the said Company, on the 21st of March, 1891, and confirmed at an Extraordinary General Meeting of the said Company on the 15th and 22nd April, 1891, which resolution was in the words and figures following—that is to say: "That the capital of the company be reduced from £20,000, divided into 2,000 shares of £10 each, to £10,000 divided into 2,000 shares of £5 each, and that such reduction be effected by cancelling Capital which has been lost or is unrepresented by available assets to the extent of £2 12s. per share upon each of the 300 shares issued and outstanding upon which the sum of £10 per share has been paid up, and to the extent of 12s. per share upon each of the remaining 1,700 issued and outstanding upon which the sum of £8 per share has been paid up, and by returning to the holders of all the said 2,000 shares issued and outstanding Capital to the extent of £2 8s. per share, and by reducing the nominal amount of all the said 2,000 shares from £10 to £5"—be confirmed. And it was ordered that the said Company be at liberty on and after the 28th March, 1892, to discontinue the addition to its name of the words "and Reduced."

And notice is hereby also given that the said Order has been produced to the Registrar of Joint Stock Companies, and a copy thereof has been delivered to him, together with a Minute approved by the said Judge, in the words and figures following—namely, "The capital of the Soden Mineral Produce Company (Limited and Reduced) is from henceforth £10,000, divided into 2,000 shares of £5 each, in lieu of the original capital of £20,000, divided into 2,000 shares of £10 each. At the time of the registration of this Minute the sum of £5 per share has been and is to be deemed paid up on each of the said 2,000 shares."

And such Order and Minute have been duly registered by the said Registrar of Joint Stock Companies.

Dated this 15th day of March, 1892.

McKENNA & CO.,
Of 17 and 18 Basinghall Street, London,
Solicitors for the said Company.

EXCHANGE COLUMN.

See page 40 (bottom folio)

Limited to the Advertisement of Surplus Stock, Formulæ, Addresses Wanted, and Articles Wanted.

If you have no surplus stock to Advertise just now, keep this Form for future use.

Printed by SPOTTISWOODE & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—March 19, 1892

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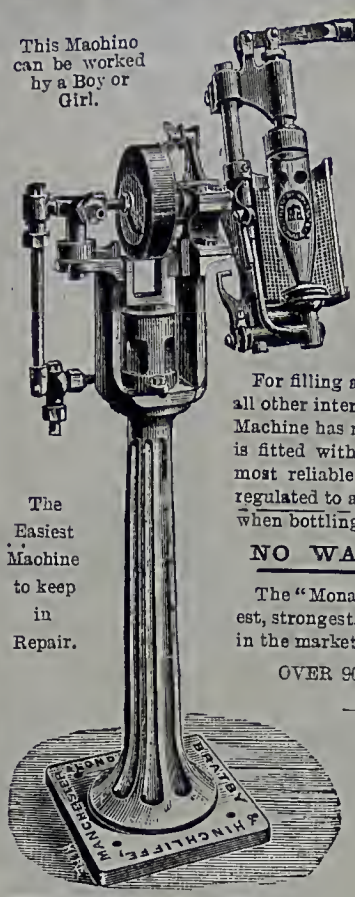

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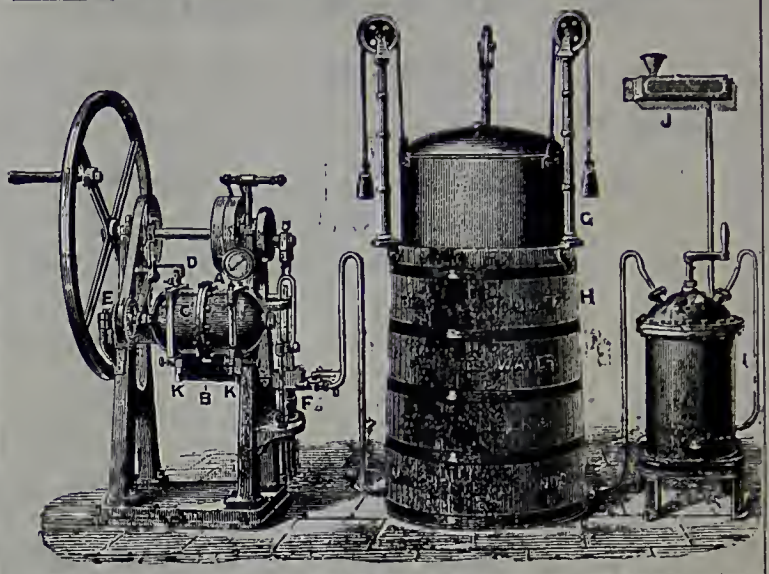

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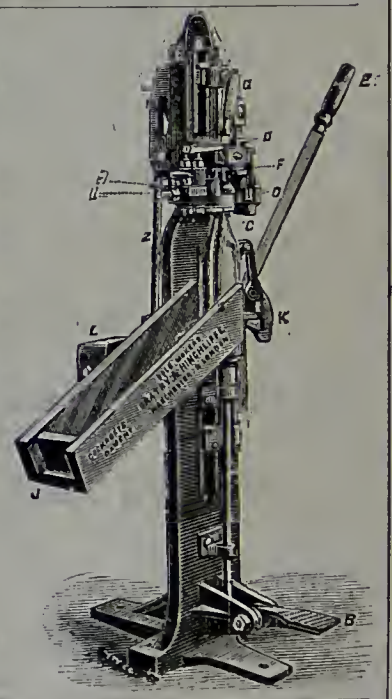

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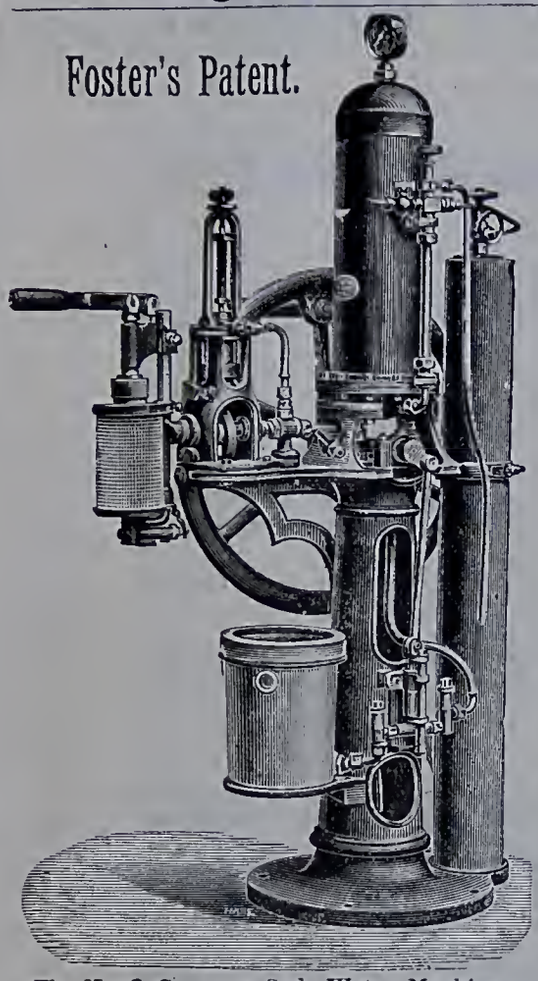

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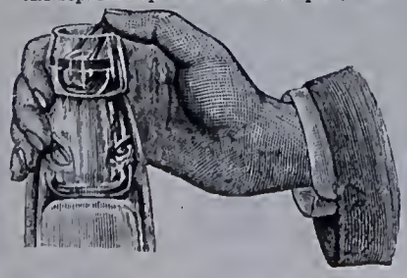
The patent "Attached Opener" converts the "Codd" type of bottle into the easiest opened of any in the market. It can be instantly fitted; the bottle can be instantly opened by a child without danger; and it does away with the separate opener. Price 3s. per gross.



Buy the "LONDON MADE"

SYPHON

(Title Registered)

AND SUPPORT BRITISH INDUSTRY.

It is the cheapest, strongest, handsomest, and best in the World.

Pure Block Tin Tops

PRICE 1/6 EACH.

Nickel-plating Tops from 4d. each.
Silver-plating Tops from 6d. each.
Marking on Tops free for orders of 250. Smaller quantities, steel die charged.
Marking on Vases Free for orders of 1,000. Smaller quantities, plate charged 7s. 6d. upwards according to design.

Before placing orders for Syphons see Foster's latest improvement—

THE PATENT CHECK VALVE,

Which prevents too sudden an outflow and also renders the water more sparkling.

ILLUSTRATED CATALOGUE FORWARDED FREE UPON APPLICATION TO

BARNETT & FOSTER, "NIAGARA WORKS," 26T EAGLE WHARF ROAD, **LONDON, N.**

TO EXPORTERS OF MINERAL WATERS.

JEWSBURY & BROWN, MANCHESTER,

specially prepare and pack their unrivalled MINERAL WATERS and AERATED BEVERAGES for Export, and will have pleasure in quoting prices and terms delivered free alongside ship at any British port.

Wherever these Waters have been introduced the superiority of quality, style, and freedom from Leakage and Breakage have secured for the Brand preference with the consumer, and given every satisfaction to the shippers.

THE LARGEST MANUFACTURERS OF SYPHONS AND SELTZOGENES IN THE KINGDOM.

SEVEN PRIZE MEDALS AWARDED.

SYPHONS & SELTZOGENES

SEVEN PRIZE MEDALS AWARDED.

ENGLISH MAKE.

Perfect Action. Full Strength. Best Workmanship. Thoroughly Reliable. Well Tested. Metal Guaranteed Free from Lead. Lowest Prices consistent with First Quality.

THE ORIGINAL AND ONLY REAL

Non-Metallic SYPHONS & SELTZOGENES.

The "MAJOLICA" Porcelain Lined Heads.

(By Royal Letters Patent, No. 15,086).

Metallic contamination of the waters utterly impossible. Vide *The Lancet*, 30 April, 1890, and other scientific opinions.

Samples, Prices, and Full Particulars on application to

THE BRITISH SYPHON MANUFACTURING CO. (Eugster & Koertgen, Props.)

Offices: 2B GRESHAM BUILDINGS, GUILDHALL, LONDON, E.C.

TO CHEMISTS AND DRUGGISTS. WANTED, AGENTS IN ALL TOWNS FOR

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THE CHAMPAGNE OF NATURAL MINERAL WATERS.

SPARKLING, BRILLIANT, and EFFERVESCING.

Allows a Larger Profit to the Trade than any other Natural Mineral Water.

Testimonials from Royalty, and highly recommended by the most eminent members of the Medical Profession as the Finest Natural Mineral Water known.

GEROLSTEIN COMPANY. Offices—153 Cheapside, LONDON, E.C.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

MOST SUITABLE BASIS FOR QUININE AND OTHER MEDICATED WINES.

CAN BE OBTAINED FROM THE MAKERS—

A. MILLAR & CO., Thomas Street, DUBLIN.

Sole Agents for London and District—H. J. ROYDANT & CO., 75 Acre Lane, Brixton, S.W.

Chemists are earnestly requested in their own interest to maintain full retail price of 1s. 6d. per bottle.

THE "FRANZ JOSEF"

Natural Aperient Water

Claims these advantages in comparison with others of that class, viz.:—

(1) It is the **STRONGEST** in the cathartic salts; and therefore less of it is necessary to produce the desired effect.
(2) Fortunately it happens to be **ALMOST TASTELESS**.
(3) Being a **PURELY NATURAL** Water, its action can always be depended upon.
(4) It is most suitable for **CHILDREN** in small doses.

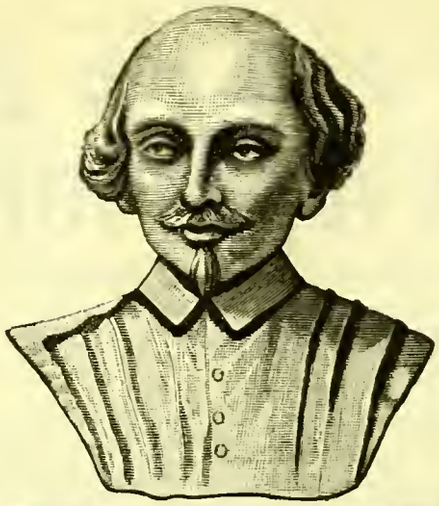
Of Special Value in the Treatment of CHRONIC CONSTIPATION,
Lithemia, the Laxative for Ladies before and after Accouchement, Anæmia, Dyspepsia, and Gastric Catarrh.

N.B.—On application, a Scientific Treatise on the "Physiological Action and Therapeutic Effects of Aperient Mineral Waters," for carrying out a prolonged course of treatment at home in imitation of that at Carlsbad and Kissingen.

Chemists will oblige by writing for the handsome Show Card, of which the above is a facsimile in Black and White, to—

THE "FRANZ JOSEF" CO., 4 Sussex Place, Leadenhall St., **LONDON, E.C.**

Shakespear on some of



W. J. BUSH & CO.'S Preparations—

OIL OF LEMONS

W. J. B. & CO.'S SPECIALITY.

"Pure as the unsullied lily!"—*Love's Labour's Lost.*
"You have won a happy victory!"—*Coriolanus.*
"Excellence did earn it!"—*Much Ado about Nothing.*

POTTER & MOORE'S MITCHAM PEPPERMINT OIL.

"Very good, very excellent good!"—*As You Like It.*
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W. J. BUSH & CO.'S ENGLISH DRAWN ESSENTIAL OILS

"Innocent and pure!"—*Tempest.*
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W. J. BUSH, FAYE & CO.'S FRENCH ESSENTIAL OILS.

"I know thy quality!"—*Henry V.*
"They are excellent perfume!"—*Much Ado about Nothing.*

ABSOLUTELY PURE AND THE FINEST ESSENTIAL OILS
CAN ONLY BE OBTAINED FROM

W. J. BUSH & CO., ARTILLERY LANE, LONDON.

TO AERATED WATER MANUFACTURERS.
HAY'S
SOLUBLE ESSENCES
REGISTERED
ARE GUARANTEED TO BE THE FINEST IN THE MARKET.
HAY'S
Soluble Essence
JAMAICA GINGER
A pure Essence of the FINEST GINGER
HAY'S
GINGER ALE
ESSENCE
HIGHLY CONCENTRATED
MAKES A GINGER ALE that is unsurpassed by the so called "FINEST BELFAST."
HAY'S
COMPOUND FORTIFIED
Essence of
JAMAICA GINGER
IMPARTS AN EXQUISITE
Ginger Aroma
HAY'S
SOLUBLE ESSENCE
MESSINA LEMONS
HIGHLY CONCENTRATED
A MAGNIFICENT PREPARATION
MAKES THE FINEST LEMONADE
HAY'S
GINGER ALE
EXTRACT
IMPARTS PUNGENCY, COLORING FLAVOR AND AROMA AND MAKES A HIGH CLASS GINGER ALE.
HAY'S
SOLUBLE ESSENCE
LEMON
OR LEMON FLAVOUR
PREPARED FROM FRESH FRUIT
MAKES A DELICIOUS LEMONADE
GOLD and SILVER
MEDALS
HIGHEST TESTIMONIALS FROM ALL THE MEDICAL JOURNALS
THESE ESSENCES ARE UNRIVALLED FOR THEIR EXQUISITELY FINE FLAVOR AND AROMA
HULL.
PRICE LISTS FREE ON APPLICATION.

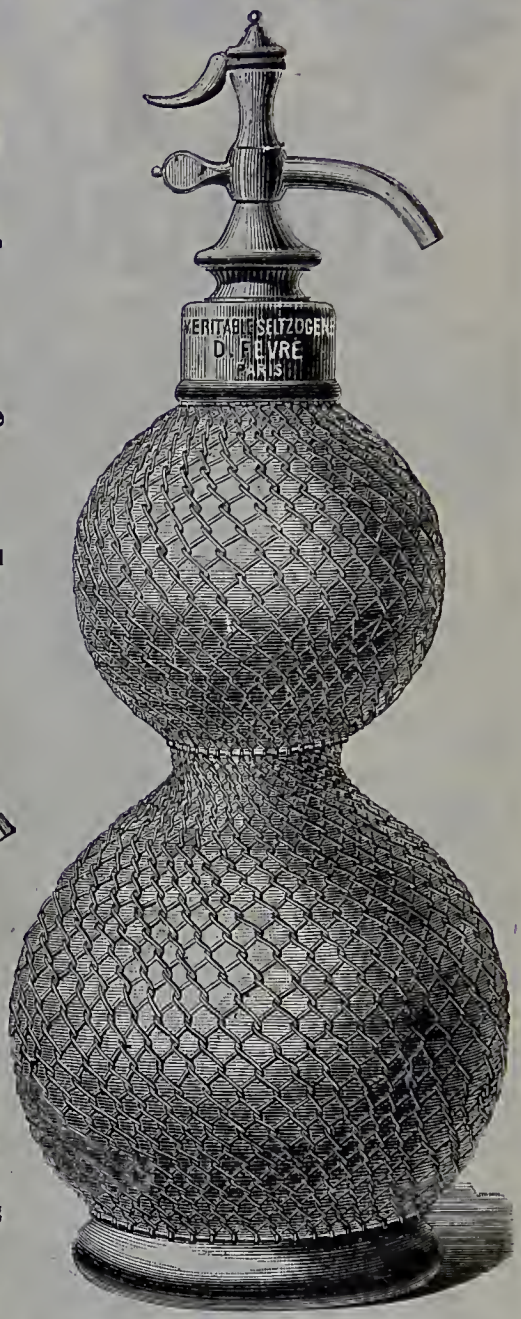
CELEBRATED D. FÈVRE'S SELTZOGENES.

COMPLETE WITH FITTINGS.

GUARANTEED TESTED

by 175 lbs. of pressure per square inch.

BEST AND CHEAPEST



CAUTION.

Genuine Celebrated

SELTZOGENES

OF D. FÈVRE.

None genuine unless bearing the words,

"VÉRITABLE SELTZOGÈNE D. FÈVRE,"

AND THE TRADE MARK SIGNATURE, D. Fèvre

E. THESSIER,

LATE THESSIER-FÈVRE,

SOLE MANUFACTURER.

Established 55 years. *Transferred*

398 Rue St. Honoré, **PARIS.** 9 Rue Castex (Near the Bastille.)

SYPHONS

BEST AND CHEAPEST.

FIRST QUALITY GLASS. GUARANTEED TESTED.

TAPS PURE BLOCK TIN FREE FROM LEAD.

Syphons of all Colours, White, Blue, Green, and Amber.

Also with Glass Engraved, Tops Polished Nickel or Silver Plated.

Syphons with Short or Long Levers, Round or Square Spouts, And all other Models to order.

E. THESSIER, LATE THESSIER-FÈVRE,

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9 RUE CASTEX (near the Bastille), **PARIS.**

ESTABLISHED 55 YEARS AT 398 RUE ST. HONORÉ.

WARNING TO THE TRADE.

MASON'S IS THE ORIGINAL EXTRACT OF HERBS

FOR THE PRODUCTION OF

Botanic Beer

A NON-INTOXICATING BEVERAGE.

Full of Body and Flavour, with a Creamy Head like Bottled Ale. The most perfect substitute for Alcoholic Drinks ever discovered, for either Summer or Winter.

MANUFACTURERS OF

EXTRACT GINGER ALE
For Sparkling Ginger Ale.

EXTRACT OF HOPS
For Hop Ale.

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For Ginger Beer.

EXTRACT OF DANDELION
For Dandelion Porter.

EXTRACT OF HOREHOUND
For Horehound Beer.

EXTRACT OF SARSAPARILLA
For Sarsaparilla Porter.

EXTRACT OF LEMON
For Lemonade.

MASON'S CIDERINE
For Devonshire Cider.

WINTER EXTRACT
For Winter Ale.

MASON'S FOAMINE
For producing a Creamy Head on all Beverages.
This is Sold in Bulk.

SOLD IN BOTTLES at 6d., 1s., 2s.. and 5s. each, with Directions.

COMPOSITION ESSENCE.

A Superior Article, sold in Bulk, Prices and Sample on application.

MEDICINAL HERBS IN PACKETS.

The Finest Herbs, and Neatly put up.

MASON'S WINE ESSENCES.

These Wine Essences will produce in a few minutes, by the addition of sugar and water.

Temperance Wines and Cordials, Ginger, Orange, Lemon, Raspberry, Black Currant, Pine Apple, &c.

IN BOTTLES 6d., 1s., and 2s. EACH.

SOLE INVENTORS AND MANUFACTURERS,

NEWBALL & MASON, Manufacturing Chemists, **NOTTINGHAM.**

Prices, Circulars, Show Cards, &c., on application. Our Extracts are not affected by Climate or Weather. ☞ Colonial Agents Wanted.

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Purveyors of Table Waters

By Royal Warrant of Appointment to Her Majesty the Queen.

IDRIS & CO. now supply a larger number of the London Hospitals, Public Institutions, and Chemists than any other Manufacturers, which is in itself a sufficient guarantee of the excellence and purity of the Waters supplied by them.

"I have examined the Mineral Waters prepared by IDRIS & CO., and find that in regard to Chemical Purity and Brilliancy they are unsurpassable."

JAMES EDMUNDS, M.D., M.R.C.P., London, &c.
Medical Officer of Health and Public Analyst to St. James's, London.

IDRIS TABLE WATERS IN SYPHONS & BOTTLES.

ELEGANT SYPHONS. BEST PRICES. PROMPT DELIVERY. WRITE FOR PRICE LIST.

IDRIS & CO., KENTISH TOWN, LONDON, N.W.

THE

VIKING FOOD & ESSENCE CO.

HAVE REMOVED THEIR CITY ADDRESS TO

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TRADE MARK.

TELEGRAMS—
"NUTRITIOUS LONDON."

Where all orders and communications should be addressed.

Their New Factory at Camden Town is nearly complete, and is being fitted with new and improved appliances for turning out THE MOST

PERFECT MEAT PREPARATIONS FOR INVALIDS.

ESTABLISHED OVER HALF A CENTURY.

E. GERAUT & CO.'S

CELEBRATED SELTZOGENES, SYPHONS, & MACHINERY

CANNOT BE EQUALLED. CONTRACTORS TO

Her Majesty's Government.

CATALOGUES AND PRICES ON APPLICATION.

OUR SOLE ADDRESS:—139 & 141 FARRINGDON ROAD, LONDON. E.C.

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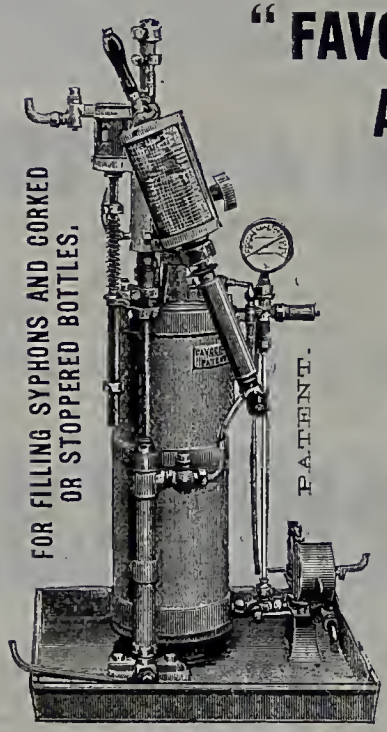
200 LARGE BOTTLES of SODA, SELTZER, OR OTHER MINERAL WATERS for **1/-**

"FAVOURITE" AERATING AND BOTTLING MACHINE.



The only Automatic Machine for Pumping, Filling, and Syruping by one person and at one operation.

A Complete Machine, by which one man is capable of making about 25 dozen bottles of Pure Aërated Waters per hour AT LESS THAN ONE SHILLING PER GROSS.

The Machine occupies a Floor-Space of only 2 feet by 2 feet, and weighs about 1½ cwt.

Price, £45 net.

HENRY ALEXANDER & CO., LIM.

80 QUEEN VICTORIA ST., LONDON, E.C.

STOWER'S LIME JUICE CORDIAL.

NO MUSTY FLAVOUR.

DELICIOUS, HEALTHY, and REFRESHING.

As supplied to Her Majesty, both Houses of Parliament, al. the leading Hospitals, the Orient Line, P. and O. Line, &c., &c.

Small Sample Bottles supplied free with the goods.

A. RIDDLE & CO.

36 & 38 Commercial Street, LONDON.

PATRONISED BY HER MAJESTY.

BARBER'S ORIGINAL CRIMSON MARKING INK,

WHICH IS CHANGED BY HEAT TO A JET BLACK.

Put up for Retail Sale in 6d., 1s., 2s., 2s. 6d., and 5s. Bottles.

Also Barber's Concentrated Liquid COCHINEAL, for Colouring Jellies, Custards, &c.

Put up in 6d. and 1s. Bottles.

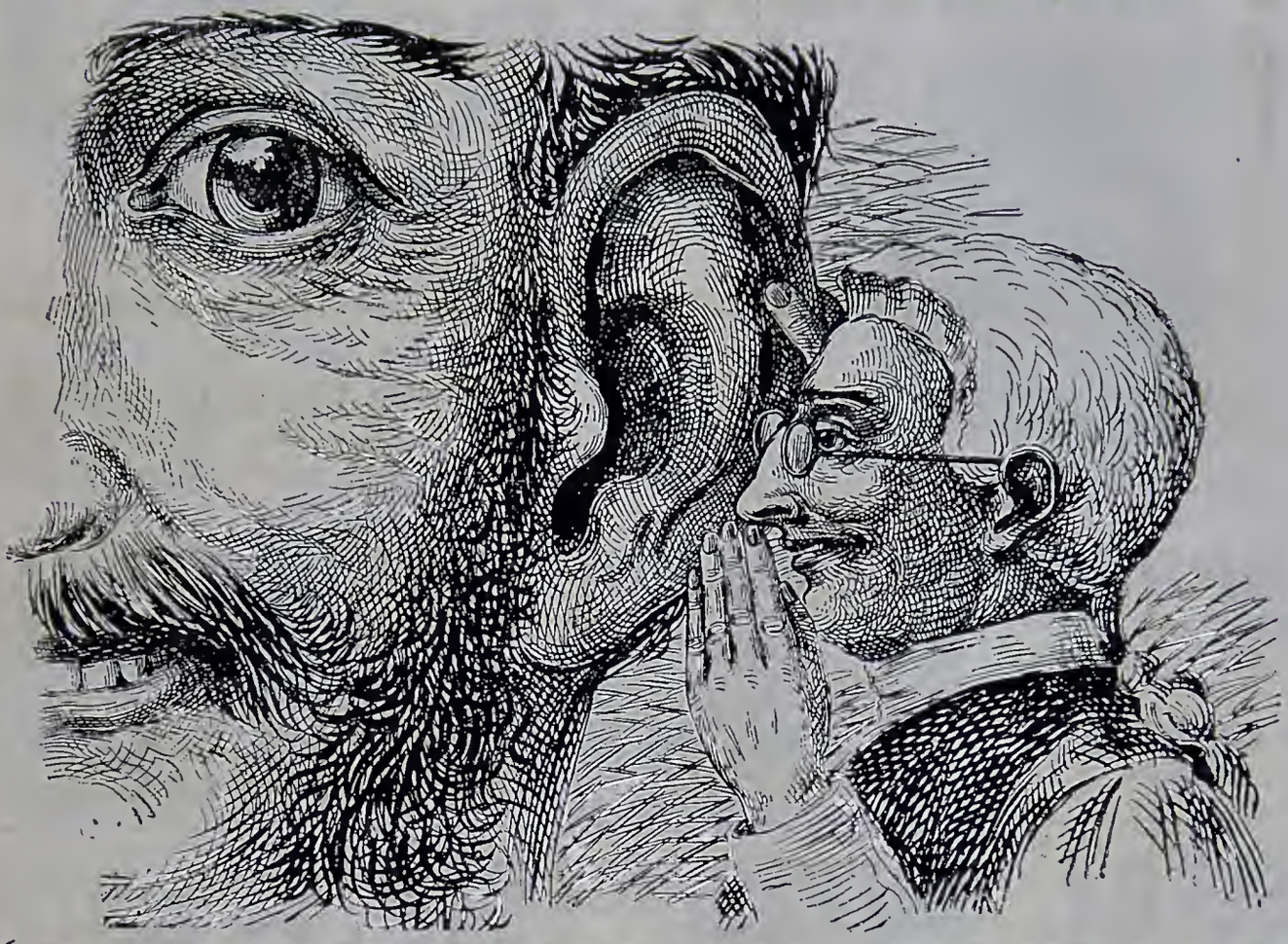
Also Barber's Artificial Ivory for Filling Decayed Teeth, 1/- per packet.

MANUFACTURED ONLY BY THE PROPRIETORS—

G. BARBER & CO., Club Moor, LIVERPOOL.

Can be obtained through any of the Wholesale Firms in Great Britain, or from FELTON, GRIMWADE & CO. Melbourne; ELLIOT BROS., Sydney and Brisbane; KEMPTHORNE, PROSSER & CO., Dunedin and Auckland; FELTON, GRIMWADE & CO., Wellington; or direct from the Manufacturers—G. BARBER, CO., Club & Moor, Liverpool, England.

WORDS OF WISDOM!!



"ENGLAND ADDRESSES THE WORLD."

EXPORTERS WILL FIND

DE CARLE'S SOLID FRUIT JUICES

(Registered No. 72160)

A SPLENDID LINE. They are the Concentrated Extracts of Real Ripe Fruit, and will, by the simple addition of Sugar and Water, make the **MOST SUPERB FRUIT SYRUPS.** The packet weighs only 6 oz. gross weight. The flavours are Lemon, Orange, Raspberry, Lime Fruit, Ginger (from Jamaica Ginger), Pineapple, Cherry, &c.

From THE STOREKEEPER AND GENERAL IMPORTERS' JOURNAL, August 27th, 1890.

De Carle's Ripe Fruit Drinks.—The latest form in which the varions ever-welcome fruit drinks has been placed before consumers is that in a powder form. We have had varions samples of snch fruit drinks snbmitted to our notice, and we readily record the fact that the thirst-allaying properties are really of a very high order. For some time past the trade has been tolerably familiar with fruit drinks of different flavours in the liquor form only. Now, however, the opportnnity occurs for partaking of a delicious and refreshing fruit drink which gives the nearest approach to the actual taste of the ripe fruit itself of any similar preparation we know. These fruit drinks, which are done np in convenient sized bottles, encased in cardboard boxes, with attractive and explanatory labels, are retailed at an exceedingly moderate price, and they at once present to the consumer for the first time a crystallised powder of different colours, in a highly concentrated and convenient form, according to the fruit which it represents. With these fruit drinks there is no mistaking the flavour, which is of the most decided natnre. the natural taste of the ripe cherry being plainly apparent, whilst the orange, lemonade, pine-apple, raspberry, lime fruit, and others being of a most distinctive, pleasant, and appetising character. We imagine it only requires a greater publicity to ensnre for these latest novelties in snmmer drinks a largely increased sale, together with the maintenance of their already established reputation. We mnst not forget to add that they can likewise be used, and very properly so, in flavouring jellies, cakes, puddings, &c., which is undoubtedly a distinct advantage. The manufactnrers are Messrs. De Carle & Son, manufactnring chemists, Norwich, from whom all information can be obtained, or through any merchant or importer. The very nature of these preparations constitutes them most admirably adapted for nse in the Colonies, where their presence, we are sure, if only on account of their extreme portability, would be one of satisfaction to our storekeeping friends wherever situated.

SEND FOR SAMPLES AND WHOLESALE TERMS.

DE CARLE & SON MANUFACTURING CHEMISTS, **NORWICH.**

"HAVING TESTED THE 'SPRING BLOSSOM' CEYLON TEA ALONG WITH OTHER LONDON HOUSES' PACKET TEA, I FIND YOURS CONSIDERABLY THE BEST."

The above is an extract from a letter received Jan. 25, 1892. (Original at our Office.)

Acknowledged the BEST VALUE in PACKET TEA on the Market.

We are open to appoint Agents where no represented.

"SPRING BLOSSOM" CEYLON TEA

is packed in Circular Air-tight Canisters and in Lead Packets to sell retail at 1/10, 2/-, 2/4, and 2/10 per lb. Tasting Samples and Terms post free; or set of four Specimen ¼-lb. Samples post free for 2/- in stamps. A full supply of printed advertising matter, in the form of Invoices and Handbills (printed with Customer's name and address), Price Cards, bold and effectively Coloured Posters, and most handsome Show Card, free of charge.

CAVE, JOHNSON & CO.

Wholesale Tea Blenders to the Trade only, 8 LIME STREET, LONDON, E.C.

Telegraphic Address—"CAVE-JOHNSON," London. Blending Warehouses—1 Fenchurch Avenue and 47 Lime Street, E.C.

BY ROYAL LETTERS PATENT.

CELERY COFFEE.

THE GREAT NERVE AND BRAIN STRENGTHENER AND RESTORER, THE FUTURE BEVERAGE FOR YOUNG AND OLD.

Prepared Solely from Celery, guaranteed Pure & Unmixed.

Extract from "HEALTH," *edited by Dr. Andrew Wilson.*

"Sufferers from gout and rheumatism may well be persuaded to give Celery Coffee a trial; while those who are not invalids, and with whom ordinary coffee disagrees, may find this beverage a pleasant change from their ordinary drink."

Sold in Tins at 1s. & 2s.; Post Free 1s. 3d. & 2s. 3d.

MANUFACTURED BY

THE CELERY COFFEE COMPANY,

654 EGLINTON STREET, GLASGOW.

SOLD BY LEADING FAMILY GROCERS AND CHEMISTS.

LOEFLUND'S

MALT AND STERILIZED MILK PRODUCTS

LANCET.—"We have nothing but praise to bestow."

BRITISH MEDICAL JOURNAL.—"Pure Hordeum possesses all the properties claimed for it."

CHEMIST AND DRUGGIST.—"Pure Hordeum may be relied on to contain the highest attainable proportion of diastase."

KINDERMILCH } Infant
ALPINE MILK RUSKS (ground) } foods.
CREAM MILK, unsweetened, sterilized.
CREMOR HORDEATUS, delicious substitute for Cod-liver Oil.
PURE HORDEUM (Malt Extract); also with Cod-liver Oil, Hops, Iron, Lime, Quinine, and Pepsine.
MALT EXTRACT LOZENGES.
MUSTARD LEAVES, best and cheapest

Sole Agent.—ROBERT BAELZ & CO., 14–20 St. Mary Axe, E.C.

ROOT'S CUCA COCOA AND CHOCOLATE.

"CUCA," the Extract of the leaves of "Erytbroxylon Coca," is the most valuable addition to the Pharmacopœia this century has produced.

COCOA AND CHOCOLATE are the most, if not the only, really palatable forms in which Cuca can be taken as a dietary article for everyday use, and are consequently being largely recommended by the Medical Profession.

Recent Testimonial.

"My opinion is that you have introduced a most useful preparation of Cocoa. It is simply invaluable in cases of exhaustion, and in recovery from illness. It is extremely pleasant to drink, and I can recommend it with every confidence—not only as a useful 'Pick-up' after illness, but as a valuable article of diet for everyday use. For Cyclists and Athletes I know no better beverage. Yours truly,

"May 6, 1891. ———, M.R.C.P.E., etc."

The *Lancet*, October 3, 1891, p. 771, says:—

"This is an excellent Cocoa. In this novel preparation are contained two substances of very definite therapeutical value, a renowned restorative and a powerful stimulant and tonic."

ROOT & CO., LIMITED, SOLE MANUFACTURERS AND PATENTEES,

38 GREAT RUSSELL STREET, LONDON, W.C.

And of all Wholesale Houses.

—oo—

Retail Prices—COCOA, in Tins, 1/, 1/11, and 3/9.
CHOCOLATE, in Boxes, 6d. and 1/.

LIST ON APPLICATION.

ROBINSON'S
LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt, and sound Port Wine.

REPORT ON BEEF WINES.

From the results of my Analyses of various Beef Wines I have had occasion to examine, none have equalled as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. Robinson, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.

WILLIAM ELBORNE, F.C.S., F.L.S.,
Lecturer on Materia Medica in the Owens College, Manchester (Victoria University).
December 15, 1888.

Introduced 1855] ROBINSON'S CONCENTRATED WATERS. [Introduced 1855.

One Ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopœia, and free from all Chemical impurity. They will keep good any length of time in any climate.

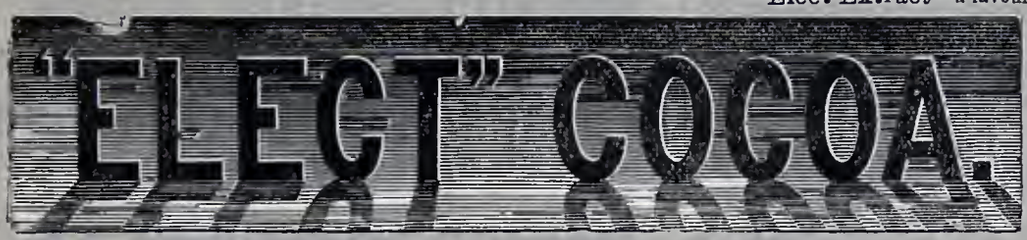
Aqua Anethi, Concent.,	4/ lb.	Aqua Cinnam. Ver. Concent.,	6/ lb.	Aqua Fœniculi, Concent.,	4/ lb.	Aqua Pimentæ, Concent.	4/-
" Anisi "	4/ "	" Cassiæ "	4/ "	" Menth. Pip. "	4/ "	" Rosæ "	8/6
" Camphoræ "	4/ "	" Flor. Aurant. "	8/6 "	" " Ang. "	6/ "	" Rosæ Virgin "	10/6
" Carui "	4/ "	" Flor. Sambuci "	8/6 "	" " Virid. "	4/ "		

The above are put up in Bottles of ½lb. or 1lb. and upwards, each of which has the Inventor's Protection Label over Cork.

From the Lancet, *July* 15, 1882:—"Concentrated Waters (Robinson's, Pendleton, Manchester).—Among the samples sent to us we find Aq. Anethi, Anisi, Cinnam. Ver., Rosæ, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopœia. They are *excellent in quality*, and will be very useful, especially in country practice. [1]

Wholesale Agents: Heaton & Co., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.

ROWNTREE'S



The "MEDICAL PRESS AND CIRCULAR":—
"Certainly this preparation is of delicate flavour . . . It is perfectly soluble . . . the small quantity required for the *immediate* production of a cup of excellent cocoa will ensure for this 'Elect Extract' a favourable reception at the hands of persons of weak digestion, and all who prefer this wholesome beverage to tea and coffee.'

The "BRITISH MEDICAL JOURNAL" says:—
"Rowntree's Cocoa Extract is one of the best. Its flavour and aroma are good. Cocoa thus prepared is one of the most digestible articles of food"

YORK, ENGLAND.

SPIKING'S MALT NURSERY BISCUITS

FOR INFANTS AND INVALIDS.

NOURISHING, STRENGTHENING, AND FLESH-FORMING.

"Spiking's Malt Bisuits are an admirable article of dietary for use in the Nursery or Sick Room."—*British Medical Journal*, May 16th, 1868.

RECOMMENDED BY THE MEDICAL PROFESSION.

SPIKING & CO.

Bakers to Her Majesty and H.R.H. the Prince of Wales,

5 DOVER ST., PICCADILLY; 24 ECCLESTON ST., BELGRAVIA; 116 BROMPTON ROAD, LONDON.

AND OF ALL WHOLESALE HOUSES.

NESTLÉ'S FOOD.

AN ENTIRE DIET FOR INFANTS.

Supplies all the elements necessary for the complete nourishment and growth of the human frame.

Nestlé's Food, being partly composed of milk, is complete and entire in itself, and requires simply the addition to water to make it instantly ready for use. It is not merely an auxiliary, like other Infants' Foods, which require milk to be added in preparing for use.

Recommended by the highest medical authorities as the nearest equivalent to MOTHERS' MILK.

Pamphlet, with Medical Testimonials, with sample sufficient for a fair trial, sent post free on application to

H. NESTLE, 9 SNOW HILL, LONDON, E.C.

TO THE

CHEMISTS & DRUGGISTS OF GREAT BRITAIN.

TELEGRAPHIC ADDRESS: COLEMAN, GEORGE'S, NORWICH.

St. George's, Middle St
NORWICH,
December, 1887.

The Excise Authorities having created a difficulty as to the sale of Medicated Wine containing a certain percentage of alcohol, we obtained in January last, from the Inland Revenue Authorities, permission to sell our WINCARNIS,* or Liebig's Extract of Meat and Malt Wine, **WITH QUININE,** without a Wine Licence, and many Chemists not holding a Wine Licence have sold considerable quantities. In order further to meet the requirements of the trade, we have introduced a Liebig's Extract of Meat and Malt Wine, **NON**-Alcoholic, made from the juice of the Grape, Liebig's Extract of Meat, and Extract of Malt. This also can be **SOLD WITHOUT A WINE LICENCE.** Your orders will oblige either direct or through the Wholesale Houses.

Yours obediently,

COLEMAN & CO., LIMITED.

N.B.—The Wine is sold in Bottles, 2/9 and 4/6 each. Trade prices on application.

P.S.—Where the Magistrate's Certificate is not held we are willing to pay the **entire cost of a Retail Certificate** (the holder of which can sell any kind of Wines) if an **assorted order of 6 dozen** is sent us of any of our preparations. List on application. Our WINCARNIS,* or **Liebig's Extract of Meat and Malt Wine WITHOUT QUININE** commands a very large sale, and is recommended by over two thousand medical men who have sent us testimonials in its favour.

SOLE MANUFACTURERS—

COLEMAN & CO., LIMITED,

ST. GEORGE'S, NORWICH,

AND 3 NEW LONDON STREET, LONDON, E.C.

* WINCARNIS is a NEW NAME, registered to prevent fraudulent imitations.

EIGHT PRIZE MEDALS AWARDED.

GOODALL'S HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6*d.*, 1*s.*, and 2*s.* each

GOODALL'S BAKING POWDER.

The Best in the World. 1*d.* Packets; 6*d.*, 1*s.*, 2*s.*, and 5*s.* Tins.

GOODALL'S EGG POWDER.

One 6*d.* Tin is equal to 25 eggs. In 1*d.* Packets; 6*d.*, 1*s.*, 2*s.*, and 5*s.* Tins.

GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2*d.*, 6*d.*, and 1*s.* each.

GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6*d.* and 1*s.* each.

GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6*d.*, 1*s.*, and 2*s.* each.

GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3*d.* and 6*d.*

GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &c. 3*d.* and 1*s.* Bottles

GOODALL'S LAVENDER WATER.

A Rich and Lasting Perfume. Bottles, 1*s.*, 2*s.*, and 5*s.* each.

GOODALL'S PLATE POWDER.

For Polishing and Cleaning all Metals. Boxes, 6*d.*, 1*s.*, and 2*s.*

GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In ½-pint, 1-pint and Quart Boxes, 3*d.*, 6*d.*, and 1*s.* each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

PATENT MEDICINES AND DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

AGENTS APPOINTED

FOR SALE OF

DR. ALLINSON'S NATURAL FOOD.

The MOST DELICIOUS and LEAST COSTLY, for

BABIES, CHILDREN (any age), INVALIDS, AND ADULTS.

The INVENTION of

DR. T. R. ALLINSON, L.R.C.P.,

The Eminent Hygienic Physician, and Authority on Health and Diet, and each Packet bears his Autograph.

This FOOD is not highly spiced, or chemically prepared, but

A PURE and NATURAL FOOD.

PACKETS, 1d., 3d., 6d., 1s. EACH.

Write for Samples and Prices to [1]

THE NATURAL FOOD COMPANY,

PETER TYRER, Proprietor,

South Street, Bermondsey, LONDON, S.E.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP,

SILVER MEDAL.

	Per gross.	Extra Quality.
1d. Sample Bottles, dozen parcels	5/3	6/3
" " ½-gross boxes	5/9	6/9
1d. Giant " dozen parcels	6/6	8/6
" " ½-gross boxes	7/-	9/-

	Per gross.	Extra Quality.
¼ Bottles, flat or round, reputed ½ pints	16/-	26/-
½ " " " pints	26/-	38/-
1 Pint Imperial, round stoppered bottles	52/-	62/-
12½-Gallon Casks (*casks free*) each	20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity & Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly ½ pint Imperial, 42/- per gross. Sample Bottles at 7/- per Gross.

Cash Price—20s. for 12½ Gallons.

CASKS FREE.

School of Cookery, Crystal Palace, S.E.

January, 1883.

Mr. PETER TYRER,

Sir,—I have been using the "Borough" Ketchup, and am very pleased with it. Its flavour is excellent, both for all kinds of Savoury dishes and Soups; and I most certainly should advise every cook and housekeeper to use it, FOR I HAVE NEVER YET MET ITS EQUAL.

[2] MARIAN SMITHARD,

Lecturess on Cookery.

IT IS A FACT THAT THOSE WHO BUY FOR CASH

MANUFACTORY—70 Long Lane, Borough, LONDON, S.E. CHIEF SCOTCH AGENCY—West Nile St., GLASGOW.

See Health Messenger, March 15th. Price 1*d.*

BRAIN TROUBLES

IN MODERN LIFE.

By T. LYLE, M.D.

And other interesting articles on Ambulance, Sick-room, Hygiene, Domestic Dangers, &c.

Subscription 1s. 6d. a year, post free. Large numbers at special rates.

MAWSON, SWAN & WEDDELL

NEWCASTLE-ON-TYNE.

Thirteen for 9*d.*, from Maw or Toogood.

MAWSON'S FILTERS.

Lay in a stock for the coming season, and you will add to your profits.

OF ALL SUNDRY HOUSES.

Write for prices and terms to

MAWSON, SWAN & WEDDELL

NEWCASTLE-ON-TYNE.

To H.R.H. The Prince of Wales, The Empress of Germany, &c.

BRAND & CO.'S

PEPTONES

OF

BEEF,

MUTTON,

VEAL,

AND

CHICKEN.

TOBACCO AND CIGARS — MIXED PARCELS.

Every Requisite for the Smoker in One Order.

The following Manufacturers' Packet Tobaccos supplied at their List Prices CARRIAGE PAID:—Wills, Cope, Hignett, Gallaher, Taddy, Ogder, Phillips, Player, Murray, Archer, Clarke, Brankston, Morris, Mitchell, Smith, Lambert & Butler, Pace, Goodwin, Duke, Kinney, Kimball, Richmond Cavendish Company, Carroll, Lorillard, &c. Havana, Mexican, Manilla, Indian, and Swiss Cigars and Cheroots at Importers' Prices.

The Cigarettes of the following Firms at List Prices:—Goodwin, Allen & Ginter, Kinney, Duke, Kimball, Au Bon Fumeur, Wills, Player, Lambert & Butler, Cope, and the leading Egyptian and Turkish Houses.

BRITISH CIGARS from 4*s.* to 20*s.* per 100. All carefully selected and well matured. The largest and most varied stock in the United Kingdom to select from.

Irish Roll, Pigtail, Nailrod, Target, Cake, Plug, and all other hard Tobaccos; also Flakes, Shags, Virginias, Cut Cavendish, and every description of plain and fancy Cut Tobaccos of standard quality at lowest prices.

Tobacconists' Fancy Goods and Smokers' Sundries of every description at current rates.

Carriage paid on parcels from £2 upwards to any station in the United Kingdom. *SEND FOR DETAILED PRICE LISTS.*

SINGLETON & COLE, Ld. { Tobacconists' Factors, Tobacco, Snuff and Cigar Manufacturers & Importers

Cannon Street and Fore Street, BIRMINGHAM.

THE

BERKEFELD - NORDTMEYER FILTER.

THE LANCET, September 12, 1891:—"We have put the Berkefeld Filter through many rigid tests; we have not obtained the slightest evidence which would enable us to contest any of the statements made in regard to this filter"

ADVANTAGES.

Rapid, Perfect, and Permanent Filtration.

Easy Cleaning and Sterilization

All Descriptions Supplied.

See Illustrated 4-page Circular, Jan. 30.

THE BERKEFELD FILTER CO., 70 MARK LANE, LONDON, E.C

LOCAL AGENTS APPOINTED.

"MYRTLE GROVE" TOBACCO

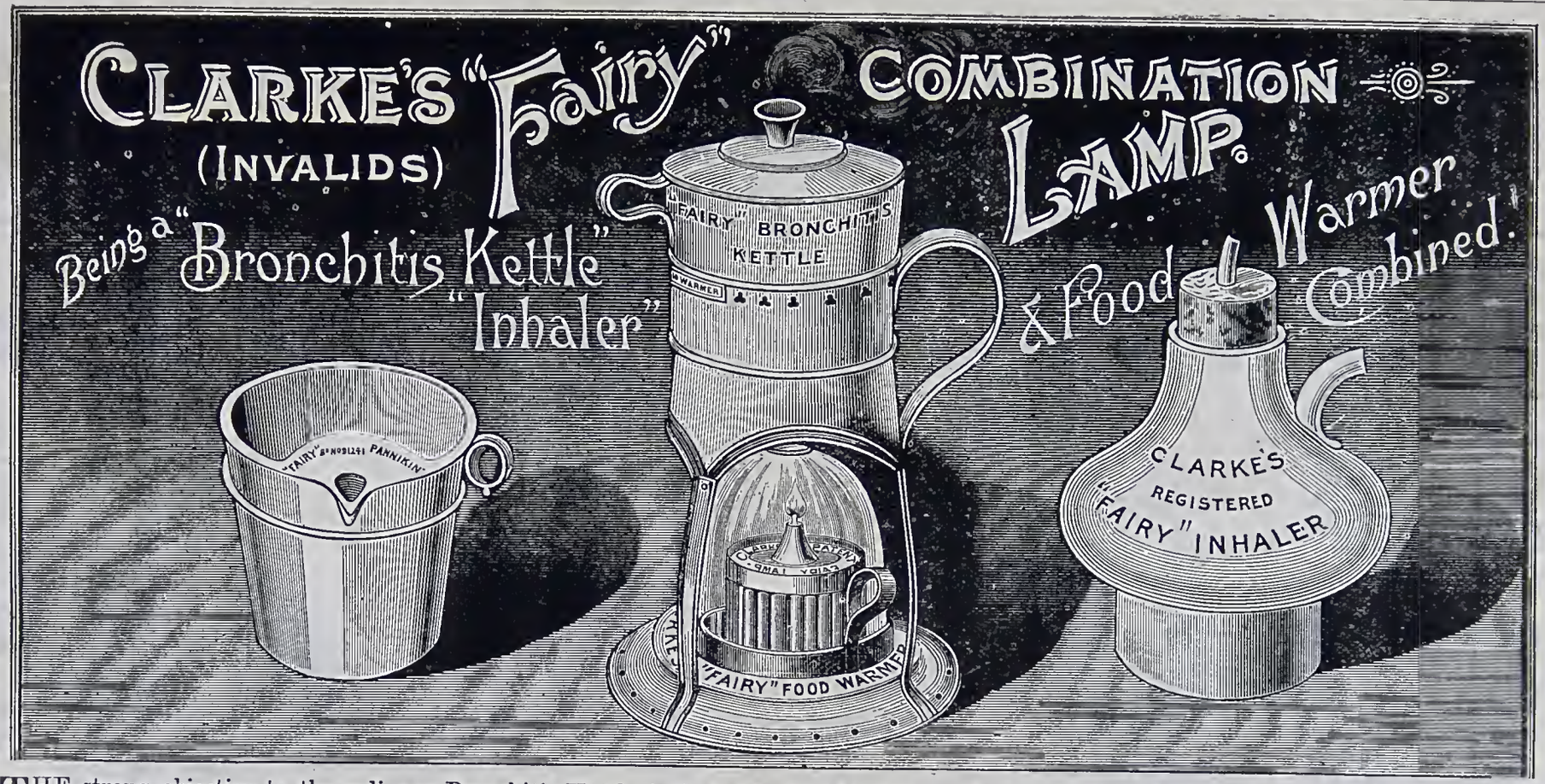
In 1-oz., 2-oz., and 4-oz. Packets, and ¼, ½, 1 lb. Tins only.

TADDY & CO., 45 Minories, LONDON

ESTABLISHED 150 YEARS.

SNUFF, TOBACCO, AND SEGAR MANUFACTURERS.

Write for List of Specialities.



THE strong objection to the ordinary Bronchitis Kettle is that a fire in the Bedroom is imperative, and the amount of steam emitted is greatly in excess of what is required. The **"Fairy" Combination Invalid's Lamp** will diffuse the proper and an equal amount of steam throughout the night, by using the Double-Wick "Fairy" Lights (burning for 10 hours without any attention).

When the **"INHALER"** is required, simply remove the Kettle and place on the Inhaler, the contents of which will be kept at the proper temperature.

Clarke's Double-Wick **"FAIRY"** Lights (10 hours) should be used for the two former, and Clarke's "Pyramid" Lights (9 hours) are recommended for the latter.

Proper Disinfectants should be used in the "Bronchitis" Kettle or "Inhaler." Boiling water should be used to start with. The Registered "Inhalers" are made to fit each sized "Pyramid" Food Warmer.

Bronchitis Lamp, Inhaler, Pannikin, Two Boxes "Fairy" Lights, and Case:—Total Cost, 18s. If Carriage Paid, 1s. extra.
Wholesale Price, 8s. 9d

N.B.—If any difficulty in obtaining this Lamp, write to the Manufacturers,

CLARKE'S "PYRAMID," AND 'FAIRY" LIGHTS CO., LIMITED, LONDON, N.W. SHOW ROOM—31 ELY PLACE, E.C.

The following extract is from a Letter we received, dated January 15, 1892, from one of the highest authorities in the Medical Profession on the Prevention of Influenza:—

"I have been ordering the use of your 'Fairy' Combination Lamp and Inhaler to my patients as the best preventative against Influenza, and suggest that it should be used as follows:—A small quantity (say a teaspoonful) of *specially prepared* Bacillus Destroyer should be put into your Inhaler, with half a pint of boiling water placed in your Bronchitis Lamp, which should be kept *constantly burning*, adding more Bacillus Destroyer and water as it boils away. Occasionally one should breathe in some of the steam and Bacillus Destroyer, getting it well into the lungs and nose. This will *prevent* the *Bacillus of Influenza* getting a *hold on anyone*."

EXCHANGE COLUMN.

This Section of "The Chemist and Druggist" must be closed for press by Wednesday morning's post of each week. Remittances payable to EDWARD HALSE.

TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of 6d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word, his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of The Chemist and Druggist, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word, as *e.g.*, £1 10*s.* 6*d.*

FOR DISPOSAL.

Drugs

4 lbs. finest tannic acid, 8*s.* post free, or exchange. "Chemist," 26 London Road, Liverpool.

Educational.

Evans Lescher's 7*l.* 7*s.* materia medica cabinet complete, mahogany, been very little used, good as new; price 4*l.* 10*s.* Apply, X. Y. Z., College of Pharmacy, 118 The Moor, Sheffield.

Proprietary Articles.

Dobson's black-leg drinks, 1 doz. each size, 5/6 and 3/0; what offers? Norman, Chemist, Godalming.

Six doz. Steedman's soothing-powders, 2*s.* 9*d.* size, at 20*s.* per dozen. 275/37, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Eleven bottles (Dicey's) Bateman's drops; 6 do. Towle's chlorodyne: 1 doz. Brandreth's sugar-coated pills; ½ doz. Hayman's balsam, clean and fresh, all at 7*s.* doz. P. M., Grosvenor Villa, Princess Rd., Kilburn, N.W.

Formulæ.

Recipe for making finest brass-polish on earth; post free, 1*s.* Seymour Pollock, 3.2 Vauxhall Bridge Road, London.

Tom Brooks's Reliable Recipes (14th year), list of 480 post free.—Following are wanted daily:—Gripe-syrup, nursery-lotion, tic-pills, white oils, digestive-syrup, skin-pills, corn-cure, mist. occasional (Dr. Carter's) for ladies, influenza-mixture, glycerine and licorice balm, limes and glycerine, ring-worm-specific; recipes 3 for 1*s.* 6*d.*, 12 for 5*s.*, post free. Tom Brooks, Chemist, Hornsey, London, N.

The most delicate, lasting, and sweetest perfume extant—Marxland Bouquet—all the different odours being well blended; sample free, 2 stamps; copy of recipe, 10*s.* 275/3, Office of the Chemist and Druggist, 42 Cannon Street, E.C.

Literature.

Literary portion *Chemist and Druggist*, 1886 to 1891; cash offers. H., 55 Lorne Road, Northampton.

Miscellaneous.

Elegant specie-jar, cheap; fine aloes barb. 4*d.*; carmine opt. 1*s.* 6*d.* oz.; aniline dyes. "Chemicus," 27 Crouch Hill, N.

Eight doz. and 5 pairs of Laurance's spectacles, retail from 1*s.* to 10*s.* 6*d.*; also 14 pairs of eyeglasses, 3*s.* 6*d.* and 5*s.* 6*d.*, with showcase complete; good condition, nearly new; cost 18*l.* 17*s.* net. What offer? Goodman, Chemist, Banbury.

Cheap, a few small patent tincture or filtering presses, 2 quarts capacity, for chemist's use and others; inside of cylinder being enamelled, it will not be affected by acids. Address, "Tincture," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Shop Fittings.

Counter, 12 ft. long, with plate-glass front and mahogany top; price 10*l.*; also several others. Philip Josephs, 54 Old Street, Goswell Road, London.

Shop-fittings for sale, great bargains; range of drawers, with glass labels and knobs, lockers, shelving, and cornice complete, 12 ft. long; price 15*l.* Philip Josephs, 54 Old Street, Goswell Road, London.

Dispensing-screens, several very handsome: one 7 ft. long, with bent-glass sponge-case under; price 20*l.*; another, 6 ft. long, mirror centre, 6*l.* 10*s.*; and one 5 ft. long, 6*l.* Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Show cases for the wall: one 8 ft. long, price 11*l.* 10*s.*; one 6 ft. long, 9*l.* 10*s.*; one 4 ft. long, 5*l.* 10*s.*; counter-case, 6 ft. long, 5*l.* 10*s.*; also desk and case, sponge and toothbrush cases, &c. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Job line.—4-lb. blue ointment-jars, canopy top, 15*s.* doz.; pear-shape carboys, 3-gall. 7*s.*, 6-gall. 15*s.*; new shop-rounds, gold labels, 9*s.* doz., average sizes, syrups included; dispensing-screen, 30*s.*; bent plate counter-case, 30*s.*; and a variety of fittings and utensils to be sacrificed. Natali, 40 Gray's Inn Road, Holborn, London.

Plate-glass mahogany counter-case, 7 ft. 9 in. long, 12 in. wide, mirror back, good condition, price 2*l.*; two large specie-jars, coloured design, 30 in. high, with stands and tops, 15*s.* each; 2 8-gall. pear-shaped carboys, with stoppers and stands, 12*s.* each; free on rail Horncastle; packages returned. W. Kemp & Son, Horncastle.

WANTED.

Books for Minor exam., latest editions. Dean, 21 High Street, Sutton, Surrey.

Two-grain pill-machine, to cut 24; state price. Shrubsole & Son, Chemists, Chester.

Dispensing-scales, on stand. 275/16, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Mortar and pestle for outside shop, with bracket complete. 273/19, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Any number of empty small Apollinaris-water bottles, 7*s.* 6*d.* per gross, delivered at Pershore station; cheque by return. Smith, Chemist, Pershore.

Copies of *The Chemist and Druggist* for Feb. 13, 1892. 4*d.* each will be paid for same by the Publisher Chemist and Druggist, 42 Cannon Street, E.C.

To purchase fixtures, fittings, and stock, to open Chemist's shop in country. Full particulars and lowest prices to J. Stanley, c/o Ashby & Sons, 7 Idol Lane, London, E.C.

Two sets of four plated forks, as presented by Seigel syrup, in good condition; state price. 273/34, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

4 good carboys and stands, 4, 5, or 6-gallon, either pear shape, or swan neck; also attractive lamp for doorway or lobby. Particulars and cash price to Oglesby, Chemist, Barnsley.

Address Wanted.

Present address of T. Price, late of Arundel, Chemist; 5*s.* given first correct one opened. Kemp, Horncastle.

E. C. Z. A.

THE NEW SKIN SOAP,

MADE ONLY BY

BAYLEY & CO., 17 COCKSPUR ST., LONDON,

THE SOLE AND ORIGINAL MANUFACTURERS OF

"ESS. BOUQUET" PERFUME and of the Celebrated "SPERMACETI SOAP TABLET."

JOHNSON & JOHNSON

NEW YORK & LONDON,

MANUFACTURERS OF ALL VARIETIES OF

Medicinal and Surgical. **PLASTERS** In Rubber Combination.

(PERFORATED AND PLAIN), AND ISINGLASS AND MUSTARD PLASTERS.

ALSO MOIST ANTISEPTIC DRESSINGS & ABSORBENTS.

100 leaves each in envelope. Price 5/.

MUSTARD PLASTERS.

We are now preparing Mustard Plasters after an entirely New Process. Mustard Plasters have always given some trouble to both Physician and Pharmacist, by reason of decomposition from age, thus becoming inert. After years of careful manipulation we have been able to overcome this difficulty, and the Mustard Plasters prepared by us are guaranteed in every way.

THEY WILL KEEP BETTER.

THEY WILL GIVE BETTER SATISFACTION TO YOUR CUSTOMERS.

THEY ARE STRONGER THAN ANY OTHER MAKE.

10 leaves in flat tin box. On cloth 8/6, on paper 7/ doz. boxes.

In ordering always specify JOHNSON & JOHNSON.

LONDON CORN PLASTERS.

JOHNSON & JOHNSON

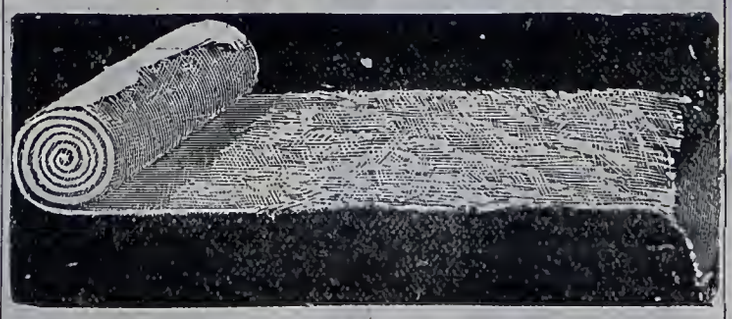
Briefly described as follows:—The centre is a piece of Salicylic Plaster Mass (40 per cent.), which is placed over the corn.

Around this is a corn shield, which prevents pressure from the boot and the Salicylic from going beyond and injuring the flesh.

The whole is kept in position by means of a strip of adhesive plaster on the back.

Packed in 6*d*. and 1/ boxes. Sample dozen mailed to any chemist's address, on receipt of 3/6 for the 6*d*. size, or 6/6 for the 1/ size.

ABSORBENT COTTON WOOL.



Rolled with Tissue Paper between to prevent felting,

The Invention of JOHNSON & JOHNSON.

AS EASY TO APPLY AS A CLOTH BANDAGE.

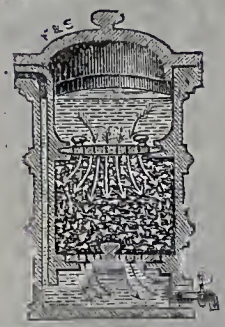
In ordering from Wholesale Trade, specify JOHNSON & JOHNSON.

JOHNSON & JOHNSON, LIM., 1 & 2 AUSTRALIAN AVENUE, E.C.

Magic Pocket Savings Bank.

Locks itself, Registers the amount deposited, and can only be opened when £1 in Sixpences has been deposited.
Per dozen, 3/9: if one gross, 3/6.

GEORGE CHEAVIN'S
World-renowned
Patent Removable Plate
WATER FILTER.

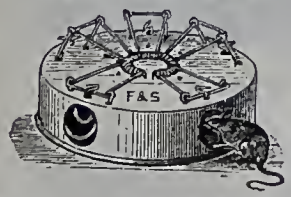


CHEAVIN'S FILTER affords a certain protection against the dangers that lurk in the domestic water supply. Guaranteed to remove all Germs of Cholera, Typhoid, Diphtheria, and all cases of Blood-Poisoning, &c.
NEW 1892 LIST READY.

HACKWORTH'S PATENT
Flannel and Poultice Heater.

Will be ready for delivery next week.
RETAIL 2/6 Each.
Full particulars free.

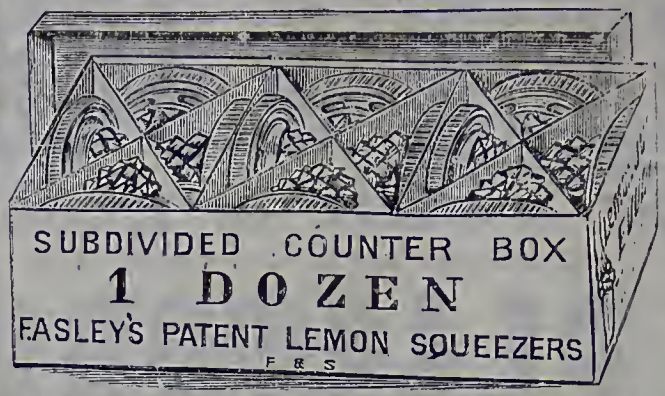
THE "FORT" PATENT MOUSE TRAP.



We highly recommend these Traps, they having proved themselves catchers of large numbers of mice.
Price per doz., 3/9.
Every kind of Rat and Mouse Trap suitable for all markets of the world in Stock.

W. B. FORDHAM & SONS, Ld.
86 to 40 YORK ROAD,
KING'S CROSS, LONDON, N.

EASLEY'S LEMON JUICE EXTRACTOR



NET PRICE LIST FOR THE SEASON, 1892.

1 dozen.	3 dozen.	6 dozen.	12 dozen.
2/-	1/11	1/10	1/9 per doz.

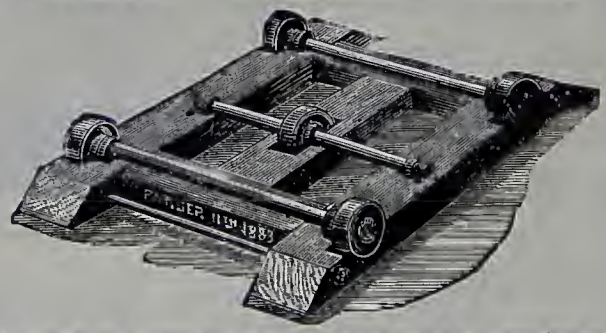
☞ Also in Original Casks of 2½ gross as received (not in sub-divided boxes, but well packed in Hay, &c.), 50/- per Cask, package free. Special price to Shippers.

TRADE PRICES.

Cases of 100 Bars	.. ..	25/.
Cases of 60 „	.. ..	15/.
Boxes of 48 Half-bars..	..	6/3.

If any difficulty in obtaining, write Sole London Consignees—
"FORDHAMS, LONDON."
Special Prices to Merchants & Shippers.

"SAMSON" WAREHOUSE TRUCK.

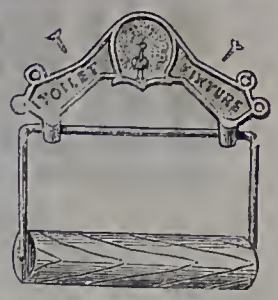


A Cheap, Simple, Strong, and Efficient Improvement for removing heavy loads from place to place. By the adaptation of the centre rotating wheels, the load is readily run and steered into any desired position.

Carrying Capacity.	Measurement.	Price each.
50 cwt.	36 in. × 24 in., iron wheels	32/-
30 cwt.	22 in. × 16 in., iron wheels	16/-
10 cwt.	27 in. × 16 in., wood rollers	6/-

W. B. FORDHAM & SONS, Ld.
36 to 40 YORK ROAD,
KING'S CROSS, LONDON, N.

LAVATORY APPLIANCES.



THE NEW
"Peacock" Toilet Fixture
Complete with Screws and Roller.
2/- doz. or 22/- gross.
Each packed in a box.

PATENT PERFORATED
TOILET, SHAVING, AND CURL PAPERS.

12-oz. Rolls (Perforated), in cases 100 Rolls, packages free.
No. 1. Thin Manilla, 1,000 Sheets. 6/- per doz. 48/- per case.
No. 2, Superior, 100 Sheets. 4/6 per doz. 34/- per case.
No. 3, Seconds. 1,000 Sheets. 3/6 per doz. 28/- per case.

C. & D. DISPLAY BOWLS

Handsomely Decorated & Unbreakable. In two sizes.
10 inch..11/3. 13 inch..18/- per doz.
IF PLAIN OAK.
10 inch..9/- 13 inch..15/- per doz.

Oval Unbreakable Tub

Price 21/- per dozen.
Light, strong, durable. No hoops to drop or rust off. Measurement 16 in. Enamelled white inside, marbled outside. No nursery complete without them. Every yacht afloat should carry two or three.

EVERY COLOUR IN STOCK.
Aspinall's lowest prices guaranteed.

SYPHONS SELTZOGENES

Manufactured by L. GILLES & CO., PARIS.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.

SYPHONS, 1/6.

PURE BLOCK TIN TOPS.

SELTZOGENES.

PRICES.

(INCLUDING TWO FUNNELS AND STOPPER FOR CHARGING.)

1 Pint ...	5/6 each.	4 Pints ...	8/0 each.
2 Pints ...	6/2 „	5 „ ...	9/11 „
3 „ ...	7/0 „	8 „ ...	15/6 „

Delivered in London.

SPECIAL AGENTS—

W. B. FORDHAM & SONS, LTD.

36 to 40 YORK ROAD,

KING'S CROSS, LONDON. N.

SPECIAL NOTICE.

We are about to make considerable Alterations and Additions to our York Road block of buildings, and will offer, when Lists are prepared, upwards of ONE THOUSAND SPECIAL LINES, many suitable to Chemists and Druggists.

EXAMPLES.

700 doz Gard & Co's Plate Cloths, 1/- size 6/6
130 „ „ Brass „ 1/- „ 6/6
170 „ „ Jewel „ 6*d.* „ 3/3

Special for 5-gross lots.

60 doz. Avenue Liquid Gold, 1/- size 5/6
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Tyrer, T., & Co.
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Cummock, J. mint)
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DRUGGISTS' SUNDRIES.

F. NEWBERY & SONS' Annual Price List will shortly be in circulation. It will be found much improved in many ways, notably IN REDUCED PRICES for DRUGGISTS' SUNDRIES, and should therefore prove interesting to every CHEMIST and DRUGGIST both in this Country and ABROAD.

The following are a few lines which are sure to sell during the coming SPRING and SUMMER MONTHS.

Flesh Gloves.

	Per doz.
3d. Turco..	2/-
6d. „	2/8
1/- „	4/6
1/- Super. Turco ..	5/6
1/- Victoria	6/-

About 2 doz. more to select from.

Enemas.

	Per doz.
"Cheapest"	17/-
"The Cheap"	20/6
"Favourite" Black ..	23/-
Drab Ingram	29/6
1 B. „	37/-
1 A. In Oval Boxes ..	52/6
Higginson's—	
Disconnecting	28/-
Connected	26/-

For other Sorts see List.

Loofahs, good quality.

Per doz. 3/6 5/- 7/6
If cut, 6d. per doz. extra.

Flesh Straps.

	Per doz.
Hard or Soft Calefacio ..	8/6
Hygienio Blue or Red ..	9/-
Loolah and Turco	10/-

SPONGES ON CARDS.

Retail.. 1d., 2d., 3d., 6d.. 1/-
Per doz. 6d., 1/- 1/6 3/- 6/-
Also loose, Bleached or Unbleached.

Hair Brushes.

	Per doz.
1/- Oval Scurf..	8/-
1/- Screw Back Oval* ..	8/-

Better class Brushes in stock.
* Each in box.

Dressing Combs.

Good yet cheap lines.

6d. Amber or Buff	3/-
9d. „ „	4/9
1/- „ „	6/3

Tooth Brushes.

From 1/4 per doz.
Good 6d. and 1/- at 3/- and 6/- per doz.

Sponge Bags, full sizes.

Per dozen.

Nos.	1	2	3	4	5	6	7	8
Check..	4/6	5/6	7/-	8/6	10/-	12/-	14/-	16/-
Fancy..	6/6	8/-	9/6	11/6	14/6	15/-	18/-	20/-

Sponge Baskets or Nets.

Retail ..	6d	1/-	1/6
Per doz..	4/-	8/-	12/-

Sponge Wrappers, from 9 6 per doz.

Smelling-Salt Bottles.

	Per doz.
6d. Squat Octagon	3/-
6d. Coloured „	3/6
6d. Watch, Gold Band	4/-
9d. Octagon, clear cut	4/-
1/- Round Fancy Gold Band ..	8/6
1/- China Pretty Decorations, Fig. Y.	8/-

A large assortment always in stock.
See Price List for Illustrations.

Fig. Y.

Perfume or Toilet Bottles.

Shape	Capacity	No.	Per doz.
Square	¾ oz.	3405	3/3
„	2½ oz.	2849	5/6

A great variety will be found in Price List.

Toilet Papers in Sheets.

	Per doz.
3d. Manilla	2/-
4d. Japanese	3/6
Stars and Stripes ..	3/6

Perforated Papyroles.

OR ROLLS OF TOILET PAPER.

Retail ..	6d.	8d.	8d.	9d.	1/-
Per doz..	3/6	4/-	5/-	6/-	7/6

Per doz.
Holders for above 6d. size .. 3/3
„ with Mirror, 1/- size 8/-

Spray Producers.

DOUBLE I.R. BELLOWS.

	Per doz.
Capital 3/6 line, fancy shape	30/-
Small, assorted patterns, 3 in a box	21/-
Pump action Sprays from	21/-
Single Ball Sprays „	14/6

Perfumes.

	Per doz.
2d. 3 doz., on card	1/4
6d. Cannon Essence Shape ..	3/9
1s. ditto, both with sprinklers	7/3
2/- and 3/6 Cut Bottles, 15/- & 27/-	

Also in bulk bottles, 5 oz., 10 oz., & 20 oz. for Chemists' use.

Prices of Bottles (Flats and Vials), Pill Boxes, Bed Pans, Breast Exhausters, Demy Paper, Puff Boxes, Syringes, Lint, Cotton Wool, Menthols, India-rubber Teats and Tubing, Thermometers, Barometers, &c., &c., will be found highly satisfactory, and a trial order is confidently looked for from Chemists desirous of maintaining their profits in these days of keen competition. Order forms supplied free. Goods sent out same day as order is received.

F. NEWBERY & SONS, DRUGGISTS' SUNDRIESMEN,

1 & 3 KING EDWARD STREET, LONDON, E.C.

WM. R. WARNER & CO.

SMALL SUGAR-COATED PILLS.

Unequalled in their medical properties or in SOLUBILITY, the best ingredients being invariably employed. Suitable for Retail Sale, in Screw-capped Pill Tubes. Not liable to Stamp Duty unless specially recommended or sold as "Proprietary."

No. 142. Gran. Cath. Comp. (Little Cathartic Granules.) Aloin, 1-10 gr.; Podophyllin, 1-5 gr.; Ext. Hyoscy., 1-20 gr.; Jalapin, 1-10 gr.; Ext. Nux. Vom. 1-20 gr.; Ol. Res. Capsici, 1-20 gr. Dose 1 to 4.

Per 1,000, in Plain Bottle, 4/-.
Per Small Stoppered Vase, with painted glass label, 5/6.
Per Stoppered Vase, with painted glass label (5,000), 21/-.

No. 180. Gran. Cath. Co. c Euonymin. Same as "No. 142," except that 1-5 gr. Euonymin is used instead of 1-5 gr. Podophyllin. Prices same as for "No. 142."

An "all-round" Antibilious Pill, which has found favour wherever introduced, is "No. 120" ("Pil. Cathartic and Liver.")

No. 120. Pil. Cathartic and Liver. R Podophyllin, ¼ gr.; Ext. Colocynth, ½ gr.; Pv. Soc. Aloes, 1 gr.; Pv. Scammony, ½ gr.; Pv. Saponis, 1-8 gr.; Ext. Hyoscyami, 1-8 gr.; Gingerine, 1-8 gr. Dose, 2 to 4 pills as a purgative, 1 to 2 pills as an aperient.

Per 1,000, in Plain Bottle, 4/-.
Per Stoppered Vase, with painted glass label, 6/4.
Per Bottle (Bulk) of 5,000, 18/9.

Write for New Complete Price List of PILLS, GRANULES, and PARVULES, &c., by W. R. WARNER & CO., giving upwards of 250 Excellent Formulæ, at moderate and greatly reduced prices.

DEPOT: F. NEWBERY & SONS.

FANCY
"BALLOON - SHAPED"
PILL VASE
(Price 15/6)
CONTAINING
3,000 "LITTLE CATHARTIC GRANULES," No. 142,
OR
SWEET LITTLE LIVER PILLS.

An Elegant and Striking Ornament for the Counter.

Cut foot and stem. Pine-shaped and faceted stopper. Vitrified pink ground label, with gold border and black lettering. Labelled only as shown in cut.

FULL DETAILS AND COLOURED ILLUSTRATIONS WILL APPEAR IN NEWBERY'S 1892 CATALOGUE.

IMPORTANT TO SHIPPERS.

Gentlemen,

Having become SOLE AGENTS for the sale of MACK'S DOUBLE STARCH (see opposite page) throughout the BRITISH EMPIRE, we beg to bring same under your notice.

This is a remarkable production, totally unlike and vastly superior to ordinary corn or rice starch, which necessitates the addition of several other ingredients to produce satisfactory results.

MACK'S DOUBLE STARCH contains all ingredients necessary for the production of beautiful white glossy linen. In it are combined, in their proper proportions, BORAX, GUM, WAX, &c., as well as STARCH GLOSS, thus saving the time, labour, and uncertainty which the addition of these to ordinary starch involves. If the directions are followed the danger of scorching the linen is reduced to a minimum, as it renders a sticky iron impossible, and thus converts what is usually a tedious and irksome task into a positive pleasure, the iron gliding over the linen with the greatest ease, and always producing the very best results. This cannot be said of any other starch in the market. Indeed, it stands by itself, and is absolutely without a rival.

During the past 8 years it has acquired great popularity throughout the continent of Europe, from Norway in the North to Spain and Turkey in the South, and, although only introduced to the English market 8 months ago, it has already obtained an extensive sale. Indeed, its early success has surprised even ourselves. The appreciation of this Starch by consumers will best be seen by a glance at the few extracts printed around the margin opposite, selected from a large number of entirely unsolicited letters which have reached us within the past month or two.

We are now introducing it into India and the Colonies, and shall be pleased to quote you for export.

We have a handsome Clock-work figure, a working Laundress, of which we will send you a supply gratis for the purpose of introduction, at the rate of half doz. for each ton of your first order, for any correspondent who has not previously bought. We charge these to English buyers, and this offer does not extend to subsequent purchases.

We shall be pleased to send you a sample for each of your Colonial correspondents, if you will kindly write for same.

Hoping to be favoured with your kind orders, which shall have our best attention,

Yours faithfully,

C. CHANCELLOR & CO.

MACK'S DOUBLE STARCH

EXTRACTS FROM A FEW LETTERS ABOUT WHICH WE RECEIVED QUITE RECENTLY (See Dates)

March 4th, 1892.
"I have tried your Starch, and find it *all that can be desired. So clean, and no trouble. I have been 37 years a Laundress.*" Mrs. Syrett, 57 Queensland Road, Holloway, London—ENGLAND.

December 7th, 1891.
"Your Mack's Double Starch is the *best I have ever used*, and I will *recommend it to all my friends*—in fact, I could not do without it; I like the Starch admirably well."
Mrs. S. Berry, Rostark Post Office, Westport, Co. Mayo—IRELAND.

A "REMARKABLE" BLACKLEAD.

Easiest, Quickest, Cheapest, Best.

Sold in Penny and Twopenny Packets.

NOTE.—You can produce MORE POLISH with Two Penny Packets of the Rising Sun than with Half Dozen Penny Packets of ordinary Blacklead

EASIEST, "I have used the "Rising Sun" Stove Polish, and prefer it to any other. I have tried several kinds of Blacklead, but none to equal this. My Kitchen Range looks charming I DID NOT FEEL THE LEAST TIRED after cleaning it as I hitherto have."—MRS. L. HUCKLE, Milton Keynes, Newport Pagnell. ENGLAND.

QUICKEST, "It really is the best I ever have used. It leaves no dust, and does not need any rubbing hardly, as the least rub of the brush makes it shine very brightly."—MRS. MCLEAN, 12, Beaumont Place, Edinburgh. SCOTLAND.

CHEAPEST, "I find it far superior to, and cheaper than any other Blacklead that I have used or seen used. It makes a beautiful even polish."—MRS. O. W. THOMPSON, Seapatrick, Banbridge, Co. Down. IRELAND.

BEST, "All the leading families about here like it exceedingly, and declare they have never had their grates and stoves look so well."—HENRY PUGH, Grocer, Llandysilio. WALES.

BLACKLEAD IN THE WORLD.

December 5th, 1891.
Miss Smith, having used Mack's Double Starch, *prefers it to any other*; it is *so much easier and better.*
Miss Smith, 34 Dublin Street, Edinburgh—SCOTLAND.

CHANCELLOR'S *Plate Powder* CONTAINS NO MERCURY NOR WHITING. EASIEST, QUICKEST, CHEAPEST, BEST.

READ THIS—"I and my daughters think it the most Perfect Powder ever used for Plate and Silver I am an old Housekeeper of over FIFTY YEARS' EXPERIENCE, and have used many others, but not any to equal yours."—A. M. LINDLEY, 13, Grosvenor Villas, Tufnell Park, London, N.

TRY A 3d. BOX AND YOUR EXPERIENCE WILL CONFIRM THIS.

MACK'S DOUBLE-STARCH

and its Result!

Domestic Felicity.
Pleased Husbands.
Happy Wives.
Old Linen made like New.
No More Frayed Edges or Button Holes.

MACK'S STARCH, contains the Very Best STARCH, also BORAX, GUM, WAX, STARCH GLOSS, and all other ingredients necessary to produce *Beautiful, White Glossy Linen.*

It thus saves the TIME, LABOUR, and UNCERTAINTY, which the addition of these to ordinary starch under the old system involves, as it requires No Addition, and No Preparation Whatever.

Ask Your Grocer for a 6d. or 3d. Box or 1d. Packet.

By the peculiar action of the ingredients in this starch upon the fibre of linen, &c., all articles regularly starched with it, will wear for years without tearing.

C. CHANCELLOR & Co., 3, Charterhouse Buildings, London, E.C.

February 20th, 1892.
"I can testify to the effect of Mack's Double Starch upon the collars and cuffs. It *surpasses any other starch*, and I shall be glad to be able to purchase it near home; *I have told one or two friends to use it.*"
Mrs. L. H. Salmon, Lodge Hill, near Wells, Somerset—ENGLAND.

February 17th, 1892.
"I shall be pleased to *recommend it* as it *excels any starch I have ever had*."
Mrs. Jones, 6 Earle Street, Fairfield, Wrexham—WALES.

February 3rd, 1892.
"I find the Starch *better than any I have used before*, and I have been a *Laundry Maid* for many years."
Mrs. Fretwell, Colston, Hull—ENGLAND.

N.B.—All the testimonials we publish are ENTIRELY UNSOLICITED!

JUJUBES.

GLYCERINE JUJUBES,

KERFOOT'S.

A Special Product of this House.

Clear as Crystal.

Delicious Flavour.

Never Lose their Lustre.

BLACK CURRANT AND GLYCERINE JUJUBES,

KERFOOT'S.

The Best Fruit Jujube in the Trade.

Their Flavour, Lustrous Appearance, and Keeping Qualities

Give them Precedence over all other makes.

Kindly Order in Advance of your requirements, as the great demand sometimes prevents urgent orders being filled.

MEDICATED LOZENGES.

Having the largest Manufactory for the above goods, I am in a position to supply all the wants of Buyers at as reasonable prices as any other house, quality and appearance considered. Samples and prices on application.

CORRESPONDENCE SOLICITED.

THOMAS KERFOOT,

MANUFACTURER OF PHARMACEUTICAL CONFECTIONERY,

MANCHESTER.

HOMŒOPATHIC MEDICINES

FOR SHIPMENT.

TO MERCHANT SHIPPERS.

A *sine qua non* with those who have business with Clients abroad is that they should be in touch with dealers of the highest repute. The object of that is to give satisfaction to the Clients, whereby their Trade is not interrupted and the Shipping House is saved worry and loss of time and money.

This advantage may be, indeed is often, purchased somewhat dearly. On the absurd idea that the two things cannot go together some old-established City Houses keep their prices as high as their reputation. That is not the case with

LEATH & ROSS,

The Old-established HOMŒOPATHIC CHEMISTS.

They have moved with the times. By so doing they have been able to cope with foreign trade in all its developments, and are able to offer to Merchant Shippers Homœopathic Goods of the Highest Quality at the Lowest Prices. MESSRS. LEATH & ROSS wish to emphasise the fact that they MANUFACTURE all Homœopathic Preparations, and are so able to place large parcels with Buyers at exceptionally low prices, while the genuineness of the medicines has their personal guarantee.

Another immense advantage to Merchant Shippers in handling Leath & Ross's goods is that they are known and esteemed the wide world over, and they are always accepted as perfectly representing true Homœopathic Medications.

LEATH & ROSS'S PRICES FOR SMALL LOTS.

PILULES or TINCTURES, in 1/- Bottles, enclosed in Neat Slide Boxes holding 12 Bottles each, 3/9 per dozen, subject to Discount for Cash.

SPECIAL TERMS TO LARGE BUYERS.

Merchant Shippers will oblige by communicating with Messrs. Leath & Ross before filling indents. Quotations may be obtained at any time and accounts opened on the usual basis.

LEATH & ROSS, HOMŒOPATHIC CHEMISTS,

9 Vere Street, W.; 5 St. Paul's Churchyard, E.C.; and 4 Fitzjohn's Esplanade, Finchley Road, N.W. } **LONDON.**

WHOLESALE AND EXPORT DEPARTMENT—9 VERE STREET, W.

THIS IS THE PAGE YOU ARE LOOKING FOR !

SHIRLEY'S A1 MENTHOL CONES.

1*d.* Vase or Pedestal, 6/6 gross.
1*d.* Bottle, 6/- gross.
2*d.* Varnished Pedestal, 14/- gross.
2*d.* Varnished Barrel, 14/ gross.
All above, 3 doz. on a card.

AIDS TO SALE. — China figure of Justice given away with 40/- order. Show case, with glass front, given away with 15/- order.

No.		Doz.
8P. 6*d.*	Pedestal Acorn, boxwood,	3/3
14N. 6*d.*	" large, "	3/6
11. 4*d.*	" Acorn, "	2/3
103B. 4*d.*	" "	2/6
113R. 6*d.*	Reversible, "	3/6
9CR. 1/-	" "	4/6
111. 1/-	Pedestal, "	5/-
1. 4*d.*	S. C. Bottle	2/9
3. 6*d.*	" "	3/6
5. 1/-	" "	5/-
107F.	The new 3*d* 1 doz. on a card, 1/9 doz. The best line out.	

No.		Doz.
112. 6*d.*	Draughtsman, boxwood,	3/3
40. 6*d.*	Watch, "	3/3
113P. 6*d.*	Skittle, printed "	3/6
14L. 1/-	Pedestal, " "	6/3
17F. 1/-	Flat, " "	5/6
	" plain "	5/-
117. 6*d*	Monster, varnished willow,	3/3
109. 4*d.*	" "	2/6
30. 4*d*	Glass Shade	2/-
31. 9*d.*	"	5/-
33. 4*d.*	" enamelled, larger cone	2/6

ETIENNE FRERES' PERFUMERY.

	Doz.
6*d.* size Cut Ring Bottle, stoppered	4/-
6*d.* ½-oz. Plain Cut " "	4/-
6*d.* ½-oz. Essence, with Sprinkler ...	3/9
6*d.* " corked and capped	3/6
6*d.* Lundborg shape, " "	3/6

In bulk. Double Extract, 7/- per 20 oz.
Triple " 10/- " "

Attractive Easel Show-card given away to assist sales.

1*d.* Colognes, 8/- gross, carded.

1*d.*	2*d.*,	3*d.*,
Tubes, 8/- gross, 3 doz. on card.	14/- gross. 2 doz. on card, or 1 doz. in box.	with Sprinkler, 2/- doz. 1 doz. on card, or 1 doz. in box.

	Doz.
*1/- Lundborg shape, stoppered, 1 oz.,	8/-
*1/6 " " " 2 "	13/-
*2/6 " " " 4 "	24/-

*Chemist's own name on 3-doz. lots, free of charge.

1/- 1-oz. Cut Bottle and Stopper, 8/- doz.

Hexagon Stand, containing 3 prettily-cut Bottles filled with Perfume, 17/- doz.

Fancy Circle of Flowers, with loop handle, holding Bottle of Scent, 11/- doz.

Fancy Leaf, Flowers, and Scent Bottle filled, 6/6 doz.

A SOVEREIGN IN A PURSE, to retail at 1/, being a Watch Smelling-bottle, with exact imitation in glass of a sovereign, fitted in a Purse, 8/- doz. Bottles only, 4/- doz.

6*d.* PURSE-BOTTLE, 4/- doz.; 9*d.*, 4/6 doz.; 1/-, with English Cut Bottle, 7/- doz.; Châtelaine Purse-bottle, 10/6 doz.

PUFF-BOXES.—*Papier Maché.* No. 802. Gilt Japanese design, 4/- doz. 803C. Floral, 5/- doz. 803A. Inlaid Gold, 5/9 doz. *Turned Wood*, covered completely over with beautiful designs, 3 in., 3/9 and 4/- doz, with Puffs, 5/6 doz.; ditto, 3½ in., 7/- doz., with Puffs, 9/- doz. No. 0. 2½ in., with Scraps on, 2/3 doz., 22/- gross, with Puffs, 34/- gross; ditto, 3½ in., 2/3 doz., 28/- gross, with Puffs, 42/- gross. Special prices to large buyers for Turned-wood Boxes of every description.

SOOTHERS.—2*d.*, Boxwood Union, Seamless Teat, Cord for Neck, 14/- gross.
2*d.* or 3*d.*, Bone " " Silk " 16/6 "
3*d.*, Bone Ring and Union, " 17/- "
All the above 3 doz. on card.
Baby Companions, with Woollen Ball ... ... 3/9 doz.

3*d.*, Bone Ring & Joint, Seamless Teat, 1/10 doz
4*d.*, " " " 2/4 "
6*d.*, " " " 3/6 "
6*d.*, Vegetable Ivory Whistle and Joint, Cord for Neck ... ... 3/9 "

Spence's Patent, with Perforated Shields, 3*d.*, with cord, 2/- doz.; 3*d.*, all rubber, 2/- doz.; 4*d.*, with ring, 2/6 doz.; 6*d.*, all rubber, 3/6 doz.; 6*d.* assorted, 3/6 doz.
Shields, small, 6/- gross; large 12/- gross; assorted, 9/ gross. 1 doz. on card.

A1 Lip salve, in push-up Cases, 1/10 doz. 1 doz. in Glass-top Box.	A1 Menthol Cocaine Tubes, 3/8 doz.	A1 Corn-tubes, 2/3 doz	A1 Chilblain-tubes, 3/6 doz.

A1 INHALERS FOR POCKET.—Wood, 3/- doz. empty, 3/9 doz. filled with Camphor.
Veg. Ivory, 3/6 doz. " 4/- " " Menthol or Eucalyptus or Pine.
Each in Box, 6*d.* retail. A good combination is Menthol and Eucalyptus.

A1 Tooth soap, 3/4 doz.	A1 Shaving cream, 4/- doz., in Collapsible Tubes.	A1 Floral-cachous, 2/3 doz., 24/- gross. In Floral Tin Boxes.	A1 Fumigating-ribbon, 3/6 doz.

A1 Anti-Catarrh Salts. 6*d.* Watch, 3/9 doz.; 6*d.* Actinic Stand-up, 4/- doz.; 1/- Stand-up Actinic, capped, 6/6 doz.

A1 Influenza Snuff. 3*d.*, 1 doz. on a card, 1/8 doz.

A1 Carbolic Tooth-powder, in Tins.
1 oz., 3/- doz.; 6 doz., 2/9; 12 doz., 2/6
1½ " 3/6 " ; 6 " 3/3; 12 " 3/-
3 " 5/- " ; 6 " 4/9; 12 " 4/6
} Chemist's own name on per gross lots.

A1 EVERFRESH SMELLING-SALTS.—2/2 lb. in bulk. 6*d.* Bottles, Peacock Blue, Globe Stoppers, 3/9 doz.; 1/- size, 7/- doz. In China Pocket Bottles, 3/- doz. Pretty, saleable.

For Smelling-Bottles, China Bottles, Odorators, Smelling-Salts, address as below is the best place to send.

ARTHUR W. SHIRLEY, 55 Farringdon Road, LONDON, E.C.

"LARGE PROFITS" !!!

LIBERAL TERMS TO SHIPPERS.

THIS

HANDSOME MAHOGANY

CASE GIVEN AWAY

upon Purchase of the Stock at K. & A.'s List Prices, namely—

$28\frac{7}{12}$ doz. 1/- Medicines at 3/6 per doz. for

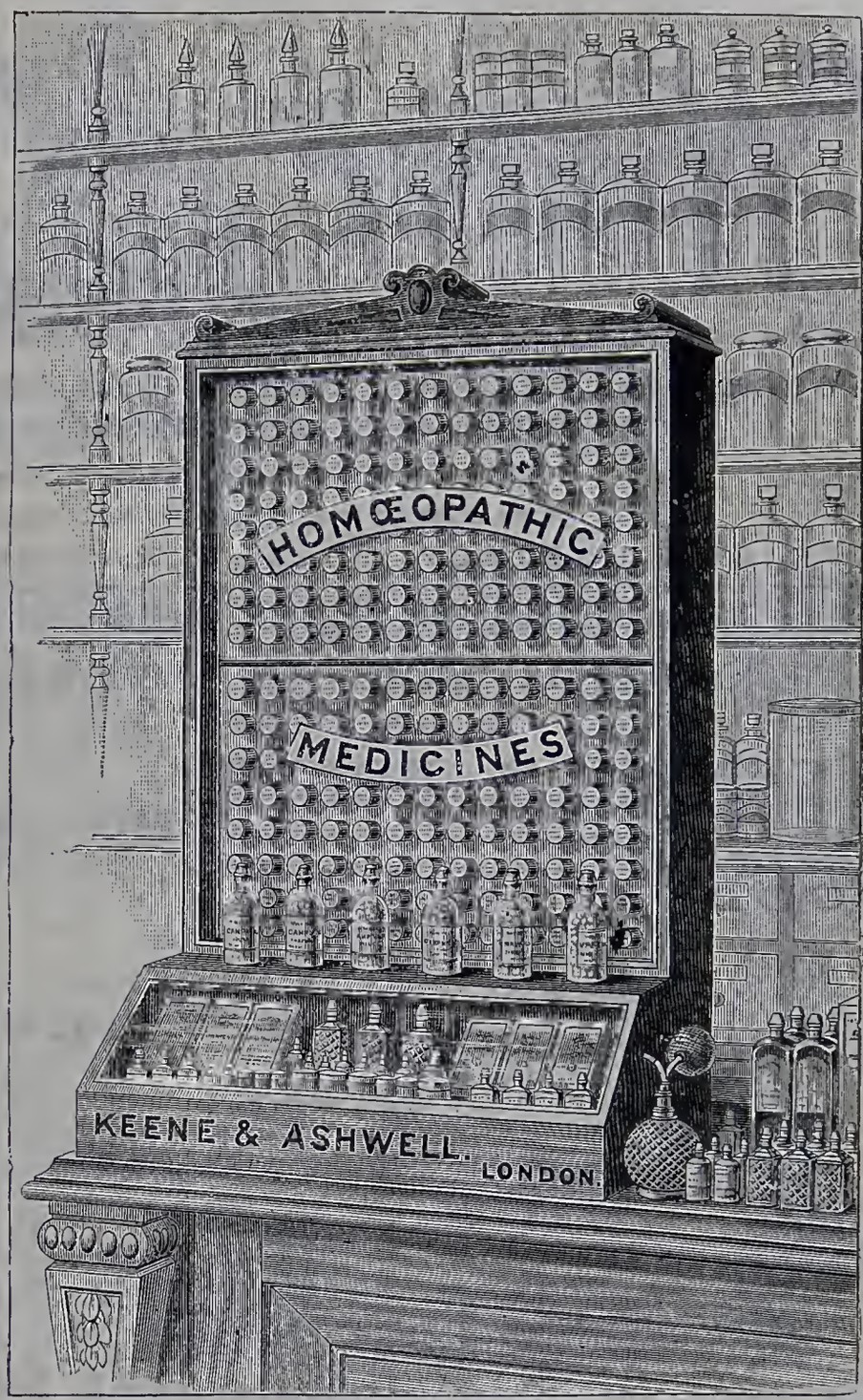
£5

Giving a nett Profit of £11 19*s*. 0*d*.

ALL

1/- HOMŒOPATHIC MEDICINES

3/6 PER DOZEN.



IMPORTANT TO THE TRADE !!!

Chemists should buy Homœopathic Medicines only from Homœopathic Chemists, and not from Manufacturers who are not registered.

THE CHEMIST AND DRUGGIST says:—

"Messrs. KEENE & ASHWELL have prepared a very handsome Counter Case, which they fill with Saleable and Popular Homœopathic Medicines, and charge buyers £5 for the whole. The contents sell for £16 19*s*.! THE SECRET LIES IN THE FACT THAT Messrs. KEENE & ASHWELL GIVE THE CASE AWAY."—*Vide Chemist and Druggist*, January 30, 1892.

Demensions, 32 inches high, 19½ inches wide.

KEENE & ASHWELL'S

HOMŒOPATHIC MEDICINES ARE THE BEST TO STOCK.

Write for further particulars of this and other Cases to

74 NEW BOND STREET, LONDON.

We beg to call your special attention to the Articles on this List, and feel sure that for equal quality the Prices cannot be beaten.

TERMS—NET CASH, MONTHLY ACCOUNT.

New Accounts must be accompanied by Remittance or London Reference.

PRICES SUBJECT TO ALTERATION WITHOUT ADVICE.

HEAD-QUARTERS FOR MENTHOL CONES.—*Prices and particulars on application.*

BRONCHITIS KETTLES.

3-Pint	1/6 each
5-Pint	1/11 „

CAMPHOR ROLLS.

Beautifully white and will not become rancid. Labels bear no name, only Brand "The Acme."

1*d.* size, ½ gross in glass top box	5/6 gross.
2*d.* „ ¼ „ „ „	11/- „

COD LIVER OIL.

Finest Non-freezing Norwegian.

Elegantly engraved Label, 6 dozen with buyer's own name.

4 oz. bottles, Imperial	2/6	Each Bottle in Cartoon.	2/9 per dozen
8 „ „	4/6		5/- „
6 „ „	8/-		8/6 „
2 „ „	13/-		14 6 „

CHEST PROTECTORS.

BEST QUALITY FELT, FULL SIZE.

	1	2	3	4	5
Red or White Felt.					
Single	5/6	7/6	9/6	11/6	15/-
Double	12/-	16/-	21/-	26/-	34/9
Flannel-lined Chamois Skin.					
Single	6/-	9/6	11/9	16/-	19/6
Double	13/6	17/6	23/9	34/6	39/-
Pine Wool.					
Single	5/6	8/-	11/-	13/6	17/-
„ lined Chamois	6/6	10/-	12/-	16/-	20/6
Double	12/6	16/6	22/-	27/-	35/-
„ lined Chamois	17/-	24/-	32/-	37/-	47/-
Pure Natural Undyed Wool. *The most perfect material made.*					
Single	5/9	8/3	10/-	12/-	15/6
Double	12/9	16/6	22/-	28/-	36/-

THE ACME INHALER.

The most elegant small Inhaler made .. .. .. 12/- per dozen.

GLYCERINE JELLY.

WHITE, RED, AND AMBER.

Delicately Perfumed.	Plain Labels.
1 oz., Nickel screw-capped bottles	2/- per dozen.
2 oz., „ „ „	3/3 „
4 oz., „ „ „	6/- „

HOT WATER BOTTLES.

Best India Rubber, Nickel-plated Screws, Drab.

Size	10×6	10×8	12×8	12×10
Each	2/11	3/9	4/7	5/2
Plush covers	10*d.*	11*d.*	11*d.*	1/1
Size	14×8	14×10	16×10	16×12
Each	5/-	6/-	6/7	7/9
Plush covers	1/2	1/2	1/4	1/6

RESPIRATORS.

No. 702/c. Cork Respirators	5/6 per dozen
702. Perforated Silver Plated	7/- „
703. Silver Plated Gauze, two thicknesses	10/9 „
704. Double Plated Gauze and perforated plate above	16/- „
705. Ditto, Ditto, below	16/- „
706. Gold Plated Gauze and perforated plate above	23/- „
707. Ditto, ditto, below	23/- „

All Nos. except 702/c each in glass top box.

TABELLÆ.

COMPRESSED TABLETS. Detailed List on application.

Pot. Chlor., in flat fancy boxes, 40 Tablets in each	1/6 per dozen.
„ „ and Borax, in round ditto, ditto	2/3 „

Tablets also supplied in bulk.

The majority of cheap Tablets contain only 30 in each box.

THE BRONCHIAL INHALER.

(REGISTERED.)

A perfect Inhaler, equal to Nelson's .. .. 8/6 per dozen.

The best and most effective small Inhaler made.

If you have not seen our New Illustrated List, YOU MUST! Write for Copy AT ONCE.

HOCKIN, WILSON & CO.,

Wholesale Druggists, Druggists' Sundriesmen, and Surgical Instrument Makers and Dealers,

13 to 16 NEW INN YARD, 186 TOTTENHAM COURT ROAD, LONDON, W.

And at MANCHESTER.

FULL LIST OF SUNDRIES, &c., ON APPLICATION.

SPECIAL TERMS

TO

SHIPPERS

HALL'S COCA WINE

A HIGH-CLASS MEDICATED WINE AT A REASONABLE PRICE

THE BRITISH MEDICAL JOURNAL says:—

"A preparation of the Coca Leaf, bearing the name of 'Hall's Coca Wine,' has been submitted to us. It appears to be carefully prepared, and contains a large proportion of the alkaloid. The preparation is not unpalatable. *Coca is undoubtedly a valuable stimulant and tonic, and this preparation of it, which is made by* STEPHEN SMITH & CO., *may be recommended as fulfilling these indications.*"

THE CHEMIST AND DRUGGIST, January 16:—

"Messrs. STEPHEN SMITH & CO., after a long series of experiments, have succeeded in producing a wine which represents in a wineglassful a drachm of the soluble and active constituents of the leaves. *The wine is of good flavour, and has a nice appearance*—indeed, it has been for the purpose of retaining these features that the manufacturers have spent much time in perfecting the process. The preparation is put up in an attractive manner in imperial pints, each boxed in a grey carton, to retail at 3*s.* 6*d.*"

This is the most palatable Coca Wine yet introduced. It equals a drachm of the Leaves to the Wineglassful. The basis is invalid port.

Retail price, 3/6 per bottle; Wholesale, 26/ per doz. In quantities of Six Dozen the Wine will be labelled with buyer's name if desired.

STEPHEN SMITH & Co., BOW, LONDON.

AND

LARGE BUYERS.

"PEPSALIA"

THE DIGESTIVE TABLE SALT.

A Condiment, not a Medicine. Keeps Good in any Climate.

"PEPSALIA" substituted for ordinary Table Salt (which it closely resembles in taste and appearance), in similar quantities, digests the food with which it is eaten with ease and certainty.

"PEPSALIA" *absolutely effects digestion* and restores dyspeptics to a condition of Health and Comfort.

"PEPSALIA" is now made almost perfectly white. It is odourless, and guaranteed stable. We will exchange any Old or Damaged Stock for fresh goods.

Please note that the present Price of "Pepsalia" is—1s. size, 9s. 6d. per doz. net, 105s. per gross net; 2s. size, 19s. per doz. net, 210s. per gross net; 5s. size, 47s. 6d. per doz. net, 525s. per gross net.

We have now many hundreds of letters from eminent Medical Men who prescribe "Pepsalia" regularly and who highly recommend its use. There is nothing else in the market which can in any way compare with "Pepsalia" as a digestive agent.

PRETTY SHOWCARDS FORWARDED FREE ON APPLICATION.

REGISTERED TRADE MARK.

"Pumiline."

FOR USE IN

RHEUMATISM, GOUT, BRONCHITIS, THROAT AND CHEST AFFECTIONS AND SKIN DISEASE.

"Pumiline" Essence.—The most effectnal Inhalant for all Lung and Throat Affections, Bronchitis, Influenza, &c. Gives immediate relief. In Bottles 1*s*. 6*d*. and 2*s*. 6*d*. each; 15*s*. and 24*s*. per dozen, less 10 per cent.

"Pumiline" Ointment.—For all Skin Affections, Irritations, Insect Bites, Burns, &c. It gives immediate relief in the intolerable itching of Eczema, &c. In Pots 1*s*. 1½*d*. and 2*s*. 9*d*. each; 11*s*. and 27*s*. per dozen, less 10 per cent.

"Pumiline" Dry Inhaler.—Most effective and convenient Pocket Inhaler, for use in Throat or Lnng Troubles. Complete, with small Vial of "Pumiline" Essence, 1*s*. 6*d*.; 14*s*. per dozen, less 10 per cent.

"Pumiline" Jujubes.—For Sore Throat, Congh, Hoarseuess, &c., they give immediate relief. In Boxes 1*s*. 1*d*. and 2*s*. 3*d*. each; 10*s*. and 20*s*. per dozen.

"Pumiline" Extract.—Used in the Bath is specially recommended in all Chest and Throat Affections, and particularly for Weak and Sickly Children. It is highly invigorating and restorative, and shonld be nsed by Anæmic Women and Convalescents. In Bottles 1*s*. each; 9*s*. per dozen, less 10 per cent.

"Pumiline" Liniment.—Specially beneficial for nse in Chronic Rheumatism, Gout, Lumbago, Sciatica, &c. In Bottles 1*s*. 1½*d*. and 2*s*. 9*d*. each; 11*s* and 27*s*. per dozen, less 10 per cent.

"Pumiline" Plaster.—Is most effective in Chronic and Muscular Rhenmatism, Lnmbago, Sciatica, and also for Chest Affections. 1*s*. 1½*d*. each; 9*s*. per dozen, less 10 per cent.

"Pumiline" Soap.—Is a carefully-nentralised and snperfatted Soap. The fragrant "Pumiline" contained in this Soap stimulates the skin to a healthfnl functional activity, so necessary in this changeable and damp climate. In Tablets 6*d*. and 1*s*. each; 1*s* 6*d*. per box of 3 cakes; 9*s*. and 15*s*. per dozen, less 10 per cent.

"PUMILINE" should not be confounded with any other Pine preparation.

Over 1,000 Medical Testimonials and Notices in all the Leading Medical Journals.

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BARCLAY & SONS, LTD.

(ESTABLISHED UPWARDS OF A CENTURY).

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Telegraphic Address—"YALCRAB LONDON." Telephone No. 6,717.

Enemas
Sponges
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" Shaving
Combs
Capsules
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CENTRAL DEPOT
FOR
DRUGGISTS' SUNDRIES,
PATENT MEDICINES, PERFUMES,
PHOTOGRAPHIC REQUISITES AND CHEMICALS,
AND MISCELLANEOUS ARTICLES.

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THE LILAC

Flower-Flavoured CACHOUS.

Real Violets, Real Roses, Real Heliotrope, Real Lavender Cachous.

3/- per lb., splendidly labelled ; 4/- per dozen Boxes, gold embossed on calf.

18 OLD SWAN LANE, LONDON, E.C.

BROTHERS.

MASON'S

PERFUMED SOLUTION OF CARBOLIC ACID, for the Sick-room. In 1/- and 2/6 bottles at 8/- and 20/- per dozen.

CARBOLIC MOUTH WASH (ODORINE), a Liquid Dentifrice. In Sprinkler Bottles, 1/- and 2/6 each, at 9/- and 20/- per dozen.

MAGIC TOOTHACHE ESSENCE, in 7½*d.* and 1/1½ Bottles, at 6/- and 10/6 per dozen.

PERKS' PERFUMES, in 6*d.*, 1/-, 1/6, and 2/6 Bottles, at 4/-, 8/-, 12/-, and 20/- per dozen. Bulk, 10/6 per pint.

TRADE MARK.

ABOVE PRICES SUBJECT TO DISCOUNT. [1]

From all Wholesale Houses, or direct from the Sole Manufacturers—

C. E. MASON & CO., 2 Beech St., LONDON, E.C.

SECOND TO NONE IS THE GENUINE

EAU DE COLOGNE

MANUFACTURED BY

JOHANN MARIA FARINA, GEGENÜBER DEM "FRIESENPLATZ,"

COLOGNE-ON-THE-RHINE.

Sold by all the leading Wholesale Houses throughout the World. For Retail: Wallrafsplatz 10 Corner Domkloster opposite to the Cathedral in Cologne.

With "Beaulette."

PATENT **"BEAULETTES"** TRADE MARK.

Under the title of "BEAULETTE" this ingenious little article has been invented to enable small manufacturers of perfumes and other similar preparations to finish their goods in equal style to those who employ skilled hands for the purpose. The illustration shows fully its advantages, and the cost being very trifling, it need hardly be pointed out that the general appearance of the goods and

THE WINDOWS IN WHICH THEY ARE DISPLAYED

are very much improved by its use.

DIRECTIONS.—Hold the "BEAULETTE" flat against the neck of the bottle in a line with the *centre of the label* with the left hand, then loop the elastic ring over the stopper or cork with the right.

PRICE 4/- PER GROSS. SOLD BY ALL THE LEADING WHOLESALE HOUSES.

Suitable alike for Sprinkler Bottles or Paper Caps.

BREIDENBACH & CO., 48 Greek Street, Soho Square, **LONDON, W.**

NOTICE!!

THE FIRM of MARIA CLEMENTINE MARTIN,

NUN

Have been Awarded PRIZE MEDALS for their Celebrated

EAU DE COLOGNE

AT THE FOLLOWING EXHIBITIONS, VIZ:—

LONDON, 1851. RHENISH PROVINCES, 1852. NEW YORK, 1853.
PARIS, 1855. LONDON, 1862.
VIENNA, 1873. SYDNEY, 1879. MELBOURNE, 1880.

Facsimiles of Prize Medals Awarded at London Exhibitions, 1851 & 1862 appear on Label of each Bottle. Without such, None are Genuine.

BEWARE OF IMITATIONS!!

EAU DE COLOGNE of the **"NUN"** (so-called), manufactured by any firm other than the above, is spurious, and an infringement of registered proprietary rights.

PRICE LIST.

	Duty Paid, Net.	In Bond.		Duty Paid, Net.	In Bond
No. 1.—Half Shorts	8/6	5/6	No. 4.—Long Green Flasks	16/-	11/-
No. 2.—Shorts	16/-	11/-	No. 5.—Wickered Bottles (Small)	26/6	19/3
No. 3.—Shorts (finely Wickered)	21/3	16/6	No. 6.—Wickered Bottles (Medium)	53/-	38/6

No. 7.—Wickered Bottles (Large) 106/- duty paid, net; 77/- in bond.

Small Cases assorted to order (of not less than £3 value in bond) delivered free freight, less 7½ per cent. discount.

All Sizes can be obtained through any Wholesale House, or direct from the Sole Agents for Great Britain and Ireland,

C. E. MASON & CO.,

2 BEECH STREET, LONDON, E.C.

PACKED PROPRIETARIES

The following are Seasonable Lines:—

GLYCERINE (Sp. Gr. 1·260).

Double distilled. Water white. Chemically pure.

Fluid Capacity.	Weight of Glycerine.	
4-oz. Bottle ...	about 5 oz. ...	3/8 per dozen.
6-oz. ,, ...	,, 8 oz. ...	5/3 ,,
8-oz. ,, ...	,, 10 oz. ...	6/4 ,,
10-oz. ,, ...	,, 12 oz. ...	8/8 ,,
12-oz. ,, ...	,, 16 oz. ...	9/3 ,,

Descriptive Labels, with Name, &c., free for Orders of 6 dozen.

CAMPHORATED ROLL

(CAMPHOR BALLS).

1*d.* Boxes (gold star)	6d.	per dozen.
2*d.* ,, ,, ...	1/-	,,
3*d.* ,, (purple show-board) ...	1/6	,,
4*d.* ,, ,, ,, ...	2/-	,,
6*d.* ,, (fancy gelatined paper)...	2/9	,,
6*d.* ,, (metal push-up cases, gold-coloured)	3/6	,,

COD LIVER OIL.

Finest Non-freezing Oil, almost free from taste and smell.

8-oz. Bottles	5/6 per dozen.
16-oz. ,, ...	9/6 ,,
32-oz. ,, ...	18/6 ,,

Descriptive Labels, with Name, &c., free for Orders of 6 dozen.

CHEMICAL FOOD.

Parrish's Syrup of the Phosphates. Does not deposit.

		Per dozen.
3 oz. Bottles, holding about	4 oz. by weight,	3/-
6-oz. ,, ,, ,,	8 oz. ,,	5/6
12-oz. ,, ,, ,,	16 oz. ,,	10/6

All the above quotations are subject to 5 per cent. discount for monthly account.

THOMPSON, WALTERS, HOLE & CO., LIM., CURTAIN ROAD, LONDON.

JOHN SANGER & SONS

Patent Medicine Vendors,

DEALERS IN

DRUGGISTS' SUNDRIES,

LOZENGES,

Mineral Waters, Perfumery

And TOILET REQUISITES.

Just received, a Large Consignment of

BLEACHED AND UNBLEACHED

SPONGES.

Intending Purchasers will do well to inspect our Stock before ordering elsewhere. Special attention having been given to the selection and pricing, customers may rely upon getting uniformity in *size, shape*, and quality.

FOR PRICES SEE CATALOGUE PART II.

Also some very cheap First Quality

UNBLEACHED TURKEY CUPS,

WORTH INSPECTION!

LOOPHAS,

Good Quality and Large Size. 2s. 6d., 4s., and 6s. per doz., less 10 per cent. and 5 per cent. one month.

TURCO AND OTHER FLESH-GLOVES,

All Kinds and Prices.

FIRST-CLASS PERFUMES in Cut-glass Stoppered Bottles. A Variety of Shapes and Sizes.

Warehouse & Show Room:—489 OXFORD STREET, LONDON, W.

MEDAL FOR PURITY, SANITARY INSTITUTE, 1889.

6 PRIZE MEDALS AWARDED FOR PURITY OF SOAPS.

COOK'S PURE TOILET SOAPS

These Soaps are perfectly pure, and will be found in use pleasant to the most delicate and sensitive skin, great care being used in the selection of scents to avoid anything likely to cause irritation.

NO INJURIOUS COLOURING MATTER USED.

SPECIALITIES:—"SAVON DE LUXE"

THE MOST LUXURIOUS SOAP MADE.

Thousands of large samples of this Soap have been distributed, and have met with universal approval. Being made from the purest materials obtainable, it is not only a luxury, but it is economical in use.

"SHAVING CREAM"
Makes an enduring Lather. Is cool and agreeable to the skin.

"SOAP CREAM FOR INFANTS"
Specially prepared for use in the Nursery.

COOK'S ANTISEPTIC SOAP

(THOMSON'S PATENT).

A most carefully conducted set of experiments by eminent members of the Medical Profession has established the fact that this Soap is of the highest value in the treatment of ECZEMA, RINGWORM, SCABIES, FAVUS, and other Diseases of the Skin.

Messrs. E. COOK & CO. have received from Medical Men numerous communications testifying to the success that has attended the use of this Soap, most of which cannot be published; but Messrs. E. C. & Co. have the permission of many of the writers to show the originals to members of the Medical Profession.

CAN BE OBTAINED THROUGH

MESSRS. S. MAW, SON & THOMPSON, OF LONDON,

OR DIRECT FROM THE MAKERS.

Price, in 3-Tablet Boxes, per doz., 12/, Selling Price, 1/6; in ¼-gross Boxes, 10/6 per box.

Messrs. E. COOK & CO. will, with pleasure, send sample, free of charge, to Medical Men on application.

MANUFACTURED BY

EDWARD COOK & CO., LONDON,

MAKERS OF

COOK'S Celebrated GOLD MEDAL PRIMROSE, MOTTLED, and SOFT SOAPS; also of COOK'S LIGHTNING CLEANSER, and COOK'S HIGH-CLASS TOILET SOAPS.

SPECIALITY:—SAVON DE LUXE.

GOLD MEDAL, PARIS EXHIBITION, 1889.

Telegraphic Address "CRESWELL" LONDON.

HEAD-QUARTERS FOR SPONGES.

A B C. CODE USED

BRUSSELS 1861. LONDON 1883. AMSTERDAM 1883. HEALTH LONDON 1884. CRYSTAL PALACE 1884 ADELAIDE EX 1887 BRUSSELS 1888. MELBOURNE 1888

HIGHEST AWARD & DIPLOMA AT EACH EXHIBITION.

Collected from the various Fishing Centres by own specially-chartered steamers and packed at Ægina, Greece, under the personal direction of Messrs. Frederic and Alfred Cresswell.

UNBLEACHED

SPONGES

(NEW SEASON'S).

Cresswell Bros. & Schmitz are showing the largest and best-assorted Stock of Sponges in existence, and are in a position to quote prices that absolutely defy competition.

SPECIALLY SORTED LARGE CASES FOR WHOLESALE BUYERS.
PARTICULARS ON APPLICATION.

SELECT GOODS FOR CHEMISTS' TRADE.

HONEYCOMB, 1st, 2nd, and 3rd Qualities.

Bleached or Unbleached.
On Strings of 1 dozen pieces, or loose in Bags.
At per dozen.
3/ 4/ 6/ 9/ 12/ 15/ 18/ 24/ 30/ 36/ 42/ 48/ 54/ 60/ 66/ 72/

FINE TURKEY CUPS OR SOLIDS.

Bleached or Unbleached.
At per dozen.
2/ 3/ 4/ 6/ 9/ 12/ 18/ 24/ 30/ 36/ 42/ 48/ 54/ 60/ and upwards. And also Brown Turkey and Egyptian Fine Sponges, at from 2/ to 24/ per dozen.

CUBAN.

On Strings of 12 pieces, or loose in Bags.
At per string, or dozen.

Honeycomb, No. 1	1/	2/	3/	4/	6/	9/	12/
" No. 2	1/	2/	3/	4/	6/	9/	12/
Cuban Yellow	1/	2/	3/	4/	6/	9/	12/

SPONGES ON CARDS.

Honeycomb or Turkey.
1*d.* size 6/, 12 on card; 2*d.* size 12/, 12 on card; 3*d.* size 18/, 12 on card; 4*d.* size 24/, 12 on card, at per gross of sponges. 6*d.* size 3/ per doz, 6 on card; 1*s.* size 6/ per doz., 6 on card, and upwards, all at half retail prices.

SPECIAL BIN CASES.

		Per case.
B. C. 1. Cuban Fine	150 at 2*d.*, 125 at 4*d.*, 50 at 8*d.*	£5
" 2. " Honeycomb, No. 1 ..	100 at 3*d.*, 100 at 6*d.*, 25 at 1*s.*	5
" 3. " " No. 2 ..	150 at 2*d.*, 150 at 4*d.*, 50 at 6*d.*	5
" 6. " Mediterranean Honeycomb	150 at 2*d.*, 150 at 4*d.*, 50 at 6*d.*	5
" 7. " " "	100 at 3*d.*, 105 at 6*d.*, 30 at 9*d.*	5
" 8. " " "	100 at 6*d.*, 40 at 9*d.*, 20 at 1*s.*	5
" 9. " " "	40 at 1*s.*, 20 at 1*s.* 6*d.*, 15 at 2*s.*	5
" 10. " " "	15 at 2*s.*, 16 at 2*s.* 6*d.*, 10 at 3*s.*	5

State whether Bleached or Unbleached are required for Nos. 6 to 10. Nos. 1 to 3 only supplied Bleached.

TURKEY HONEYCOMB SPONGES.

ORIGINAL OR BLEACHED.

No.				
16. Finest Toilet and Bath shapes, assorted sizes..	1st quality	125	230*s.*
17. " " " ..	1st "	75	130*s.*
18. " " " ..	1st "	40	75*s.*
19. Selected Toilet shapes	1st "	280	130*s.*
20. Superior large Bath sizes	1st "	25	130*s.*
21. " quality shapes, assorted sizes	2nd "	125	150*s.*
22. " " "	2nd "	75	80*s.*
22A. " " " larger ..	2nd "	80	120*s.*
23. Good quality shapes, small	2nd "	280	65*s.*
24. " large Bath sizes	2nd "	25	95*s.*

For full particulars of all other kinds of Sponges see Cresswell Brothers & Schmitz's Illustrated Price List. Post free on application.

LOOFAHS (Sprung or Unsprung) at IMPORT PRICES.

CRESSWELL BROTHERS & SCHMITZ, London.

And at Ægina (Greece), Calymnos (Turkey), Sfax (Tunisia).

1 & 2 Red Lion Square, W.C.

WHY

should Chemists and Druggists be contented, often at the merest shade of profit to themselves, to sell the proprietary toilet soaps of colossal advertisers?

Why not give their Customers the utmost value, obtain legitimate profits, and establish the reputation of goods bearing their own names, and branded, if preferred, with their own Trade Marks?

NAPOLEON PRICE & CO. (Ltd.) select and purchase at first hands their raw materials, and manufacture, from first to last, on their own premises only the highest-class Toilet Soaps. They have just completed the erection of the latest and most improved Milling Machinery known to the Trade, and they guarantee to supply Toilet Soaps which shall command the admiration and ensure the approval and gratitude of every person to whom they are introduced.

The question of Toilet Soaps is now discussed in every household, and the Public is insisting upon having, and will continue to use, only the best qualities procurable at fair and reasonable prices.

NAPOLEON PRICE & CO. (Ltd.) still make "THE GENUINE OLD BROWN WINDSOR," as supplied by their predecessors to His late Majesty King William IV., and this old-fashioned but excellent Soap is still exported by them to all parts of the World.

They manufacture Glycerine and all Spirit Soaps, plain and scented; also Medicated and Prescription Soaps. They supply superfatted and milled Soaps to any shape, design, or size, and brand same with their own or vendors' names, as preferred.

Designs submitted, and Trade-marks or Names suggested.

NAPOLEON PRICE & CO. LTD.

(SUCCESSORS TO PRICE & GOSNELL). **ESTABLISHED 1770.**

8 Cumming Street, PENTONVILLE, LONDON, N.

SOAP BOILERS

AND MANUFACTURERS TO THE TRADE.

IMPORTERS AND MANUFACTURERS (IN BOND) OF HIGH CLASS PERFUMERY.

All Orders for Dyes executed per return of post, in time for the Easter Trade.

A GOOD LINE IN DYES WILL ALWAYS COMMAND A SALE.

DO NOT DELAY! WRITE AT ONCE!!
And secure a most attractive and saleable Spécialité for DISPLAY and WINDOW DRESSING.

SAUNDERS' BRILLIANT DYES FOR EASTER EGGS.

LIST OF PRICES.
1d. packets, 7/ per gross.
Display Card, containing 18 doz. assorted, for 10 6.

COLOURS OF DYES.

BLACK	CHARTREUSE
BROWN—	CLARET
LIGHT	CORAL
DARK	CREAM
GOLDEN	CERISE
BLUE—	CRIMSON
LIGHT	CRUSHED STRAWBERRY
DARK	FAWN
NAVY	GOLDEN YELLOW
ELECTRIC	GREEN
BRONZE	GREY
BUTTERCUP	
CANARY	
CARDINAL	

LIST OF PRICES.
3d packets, 21/ per gross.
Display Card, containing 6 doz. assorted, for 10 6.

COLOURS OF DYES.

LAVENDER	PURPLE
LILAC	ROSE
MAGENTA	RUBY
MAUVE	SALMON
MARONE	SCARLET
MOSS	SLATE
ORANGE	STRAW
PEACH	SULTAN RED
PINK	TABAC
PLUM	TERRA COTTA
PONCEAU	TUSCAN
POPPY	VIOLET
PUCE	YELLOW

Specimen of Display Card worked up in brilliant colours—the Dyes attached—the whole in a handsome Gilt Frame.

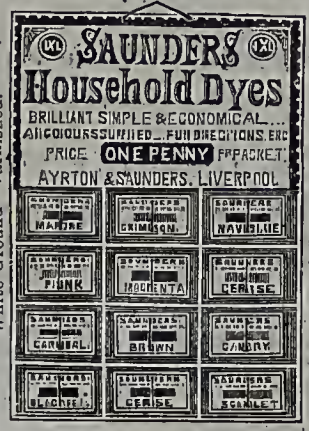
THERE IS NOTHING LIKE IT IN THE TRADE.

A Sample Card of 1d. or 3d., containing the most saleable colours, sent carriage paid on receipt of Postal Order to the value of 10s. 6d. Money returned if the Goods are not approved of.

ANILINE DYES IN PACKETS.

SPECIALLY PREPARED FOR CHEMISTS' TRADE.
EVERY COLOUR GUARANTEED—BEING THOROUGHLY TESTED BEFORE BEING SENT OUT.

Litho. Card—Blue, Red, and Black, on White Ground—Varnished.



Specimen Card of Dyes for Silk or Wool.

Illustration of our Desk-shape Mahogany Counter Stock-case, with Coloured Tablet in front and Drawer at back—price 54/ net, stocked with Dyes, any colour, equal to 4 gross 1d. and 1 gross 3d. size.

"Lancashire Dyes" for Cotton. Specimen Card of Registered

Litho. Card—Red, White, and on Dark Blue Ground—Varnished.

We are prepared to give Special Quotations (for quantities of 10 gross and upwards) for packed Dyes with Customer's own Name and Address on.

SPECIAL.—NOTE REDUCED PRICES.

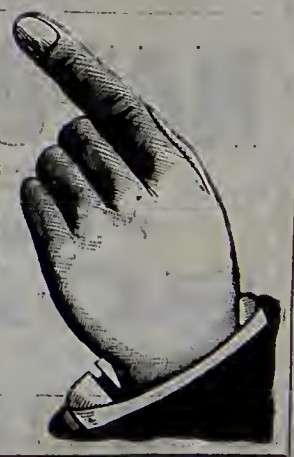
PRICE LIST OF ANILINE DYES IN BULK.

ALL COLOURS WARRANTED TO BE EQUAL IN EVERY RESPECT TO WHAT WE PACK.

Please Compare the Prices ½-lb. Sample Tins sent per post. Packed in ¼-lb., ½-lb., and 1-lb. Decorated Metal Stock Boxes.

Black	per lb. 7/6	Canary	per lb. 7/	Grey	per lb. 8/	Puce	per lb. 8/
Brown	„ 4/6	Cardinal	„ 6/	Lavender	„ 12/	Purple	„ 8/
„ (Bismarck)	„ 4/	Claret	„ 6/	Magenta	„ 8/	Rose	„ 7/6
„ (Light)	„ 4/	Cream	„ 8/	Mauve	„ 8/	Ruby	„ 7/
„ (Dark)	„ 7/	Crushed Strawberry	„ 8/	Marone	„ 3/3	Salmon	„ 8/
„ (Golden)	„ 7/	Cerise	„ 6/	„ Opt.	„ 6/	Scarlet	„ 4/6
Blue	„ 8/	Crimson	„ 6/	Orange	„ 6/6	Slate	„ 9/
„ (Light)	„ 9/	Golden Yellow	„ 10/	Peach	„ 8/	Sultan Red	„ 7/6
„ (Dark)	„ 7/6	Green	„ 6/	Pink	„ 7/6	Terra Cotta	„ 8/
„ (Navy)	„ 7/6	„ Olive	„ 7/6	Plum	„ 7/6	Violet	„ 8/
„ (Electric)	„ 14/			Poneeau	„ 6/	Yellow	„ 7/

If the above are supplied in pound Tins, an allowance of 6d. per pound is made.



SOLD BY CHEMISTS AND DRUGGISTS ONLY; WHOLESALE FROM

AYRTON & SAUNDERS, Dye Merchants, 149 Duke St., LIVERPOOL.

Agents—W. EDWARDS & SON, 157 Queen Victoria Street, E.C.

G. B. KENT & SONS'

Gold Medal,

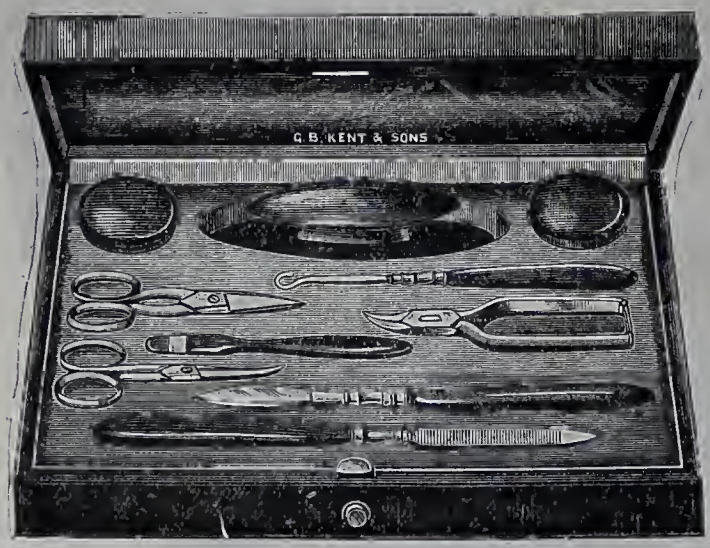
Paris, 1889.

ENGLISH BRUSHES.

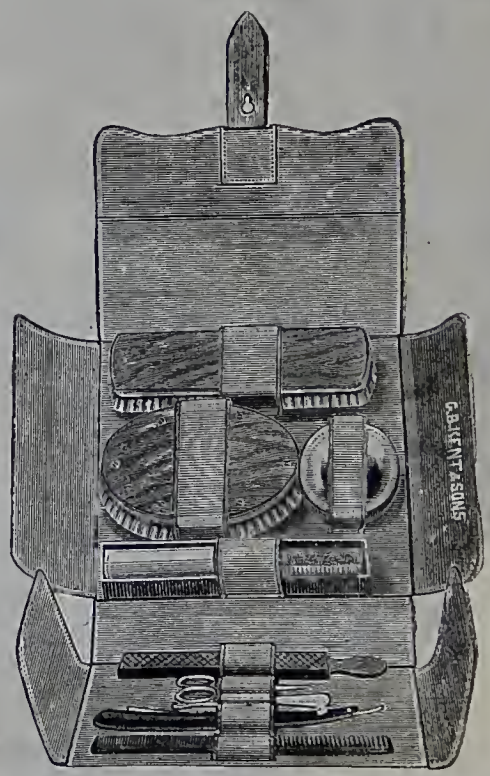
G. B. KENT & SONS'

MANICURE SET. No. 2555.
IVORY FITTINGS.

MANICURE SET. No. 2655.
BONE FITTINGS.



MANICURE SET. No. 2508.
EBONY FITTINGS.



LEATHER FITTED CABIN CASE.
No. 1081.

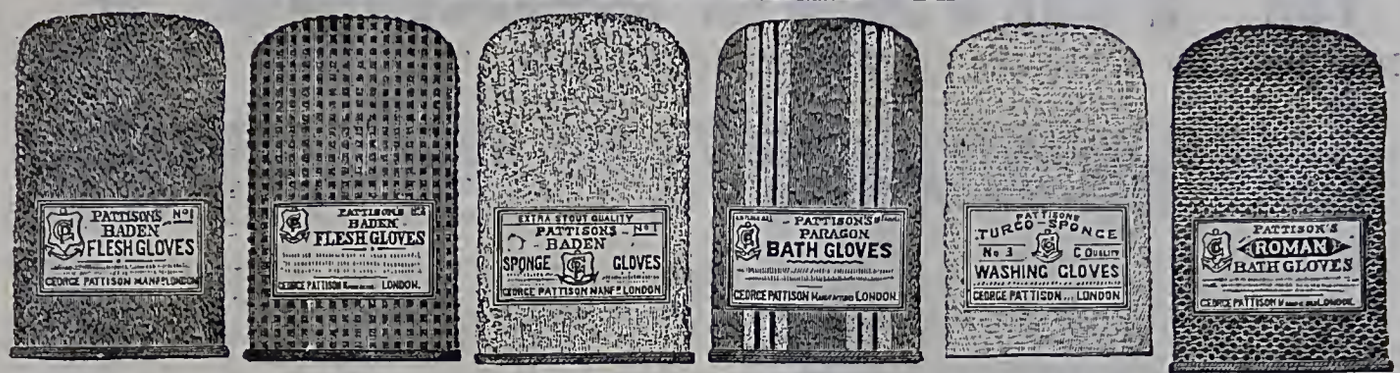
FITTED CASES.

ILLUSTRATED CATALOGUE OF BRUSHWARE ON APPLICATION.

GEORGE PATTISON,

197 ST. JOHN STREET RD., LONDON, E.C.

MANUFACTURER OF



BATH GLOVES.

CHEST PROTECTORS.

THE LUNG PROTECTOR

(REGISTERED).

CORN AND BUNION PLASTERS.

WHOLESALE AND EXPORT.

"THE LEADING HOUSE"

FOR "PRIVATE BRANDS" OF

MILLED AND SUPERFATTED TOILET SOAPS.

WE ARE THE ACTUAL MAKERS

Of most de-hydrated Tooth Soaps.

THE LINCOLN PARK TOOTH TABLET

Is one of these elegant preparations.

On attractive Show Cards, 6/- per dozen.

Customers will insist on having this article.

MAW, SON & THOMPSON, SANGER & SON, and the usual Wholesale Houses.

35 DANBURY STREET, ISLINGTON, LONDON, N.

H. BRONNLEY & CO., LARGEST TOOTH SOAP COMPRESSERS IN THE WORLD.

WHITE AND SOUND TEETH.

JEWSBURY & BROWN'S

ORIENTAL TOOTH PASTE.

This old-established and increasingly favourite Dentifrice has been over Sixty Years before the Public It is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by

JEWSBURY & BROWN, Chemists, MANCHESTER,

and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwarded on receipt of address cards and directions for enclosure.

WHITE, SOUND TEETH.

SARG'S [1]

KALODONT

AN

AROMATIC CREAM

IN

COLLAPSIBLE TUBES.

RETAIL 1/- EACH.

AGENTS—BARCLAY & SONS, LIMITED, 95 FARRINGDON STREET, E.C.

S. MAW, SON & THOMPSON'S

WHITE ROSE TOOTH PASTE.

WARRANTED TO KEEP IN ANY CLIMATE.

In Square Earthenware Boxes, Gilt Burnt-in Labels, 12s. per dozen.

S. MAW, SON & THOMPSON'S

CHERRY TOOTH PASTE.

WARRANTED TO KEEP IN ANY CLIMATE.

In Round Earthenware Boxes, Burnt-in Labels, 3s. 9d. and 7s. 0d. per dozen.

S. MAW, SON & THOMPSON'S

WHITE CHERRY TOOTH PASTE.

WARRANTED TO KEEP IN ANY CLIMATE.

In Round Earthenware Pots, 3s. 9d. and 7s. 0d. per dozen.

S. MAW, SON & THOMPSON'S

AROMATIC TOOTH PASTE

WARRANTED TO KEEP IN ANY CLIMATE.

In Square Earthenware Boxes, Burnt-in Labels, 10s. 6d. per dozen.

S. MAW, SON & THOMPSON'S

ARECA TOOTH PASTE.

WARRANTED TO KEEP IN ANY CLIMATE.

In Round Earthenware Boxes, Burnt-in Labels, 3s. 9d. and 7s. 0d. per dozen.

S. MAW, SON & THOMPSON'S

CAMPHORATED TOOTH PASTE.

WARRANTED TO KEEP IN ANY CLIMATE.

In Round Earthenware Boxes, Burnt-in Labels, 3s. 9d. and 7s. 0d. per dozen.

S. MAW, SON & THOMPSON, LONDON.

By Royal Letters Patent.

THE TEETHING PADS TO SELL.

THE "LILY" BABY COMFORTER.

The teats are seamless, and always retain their proper shape.
The Child Cannot Possibly Imbibe Air.

All Patterns may now be had, fitted with Marriott's New Patent Ring Socket, No. 17,135,

For inserting Bone, India-rubber, and other Rings into Teething Pads, Baby Comforters, or other articles without cutting the ring, which is guaranteed not to break.

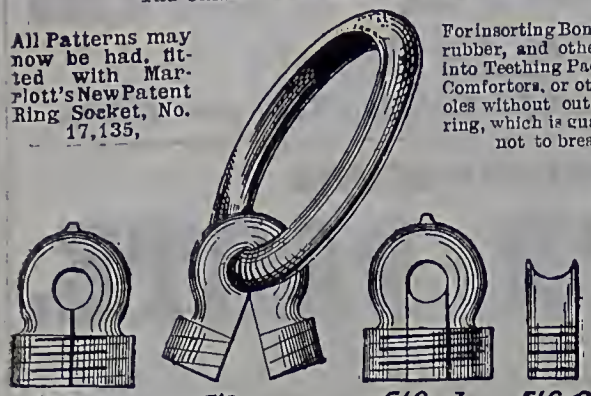


FIG. 1. FIG. FIG. 3. FIG. 4.

3d., 4d., 6d., 9d., and 1s. Retail.

New Design Just Out.

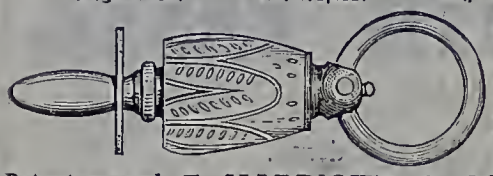
THE "LILY" DEW-DROP. Price 6d.

With Hard Rubber Pad one side of Ring and Blind Soft Teat at the other.

LATEST DESIGN.

THE "RUSTIC" BABY SOOTHER.

Registered. No. 173,132. 6d., 9d. and 1s.



This Baby Soother is of elegant design and very strong, the special feature being that the inner bark of the Vegetable Ivory Nut is not removed, but left for the purpose of ornamentation; a variety of patterns being produced.

Patentees and Manufacturers, **E. MARRIOTT & CO.**, HASTINGS.

Special Export Terms for Large Orders.

MACHINE-CUT

BITTER ORANGE PEELS

(FRESH or DRIED).

The Seville Orange Season is drawing to its close, but for the next week or two we shall still be able to supply the *specially* machine-cut Peels, which, since their introduction, have given such general satisfaction to the trade. The Fresh Peel is cut *free from pith*, in small shreds (about $1'' \times \frac{1}{16}''$) a condition acknowledged to be the most favourable for the manufacture of Official Tinctures and Infusions, and of Soluble Essences.

The DRIED PEEL is thin cut, as free from pith as possible, and every care is taken in drying to preserve the colour & aroma

We have now finished cutting the FRESH Lemon Shreds, but can still supply Machine cut Dried Lemon Peel

Samples will be sent free on application.

CHARLES SOUTHWELL & CO., DOCKHEAD, S.E.

---

650 CHEMISTS,
430 DOCTORS,
135 PUBLIC INSTITUTIONS,

Have ALREADY adopted the Electro-Homœopathic "Star" Remedies of A. Santer, Geneva, and these numbers are increasing at a rapid rate, daily. This fact, unique in the history of medicine is a more convincing proof of the power of the new Remedies than a whole volume of testimonials from grateful patients.

The system comprises Globules, Liquid Vegetable Electricities, Suppositories, Bougies, Ointments, Hypodermic Injections (the latter being the ONLY successful injection for Phthisis), Vermifuges, Tonics, Cosmetics.

Books, Monthly Magazines are now printed in all European languages.

As the present immense demand is going to be further stimulated by extensive advertising, Chemists are advised to stock the medicines, or send for particulars, so as to learn the names of the medicaments.

ALL WHOLESALE ORDERS EXECUTED FROM THE

CENTRAL DEPOT (*for United Kingdom*), GUISELEY, near LEEDS.

72

OLEA ÆTHEREA SINE TERPENO

(HEINRICH HAENSEL).

Essential Oils of Lemon, Orange, Angelica, Aniseed, Cassia, Cloves, Juniper Berries, Peppermint, Pimento, Wormwood, &c., &c., of extraordinary Solubility, Strength, and refined Aroma and Taste.

TERPENELESS AND CONCENTRATED

NON-CLOUDING.

¼ drachm of Terpeneless Oil of Lemon (H. Haensel) is sufficient to 1 gallon of Syrup. Specially adapted for Exportation.

SOLE AGENT FOR GREAT BRITAIN AND IRELAND,

WILLIAM POPPELREUTER, MANCHESTER.

SPONGE IMPORTERS.

M. PETERSON & CO.

(Established 1870),

75 ST. ANNE STREET, LIVERPOOL.

FOR HOME FOREIGN, & COLONIAL MARKETS.

SUGAR OF MILK

(SYSTEM LANGEN).

Highly recommended by authorities. The only make of perfect purity in all respects.

AGENTS—

BURROUGHS BROS.,
56 Basinghall St., London, E.C.

H. P. TRUEFITT'S SPECIALITIES FOR THE HAIR.

Floral Extract, 3/6, 5/-, 10/6, 21/-
Egg Julep 2/-, 4/-.
CONCENTRATED Egg Julep, 2/6, 5/-, 10/6.
Golden Fluid, 10/6, 21/-.
EUXURON, 1/6.
&c.

Stimulating Lotion, 5/- 10/6.
Astringent and Tonic Lotion, 5/-, 10/6.
Quinine and Arnica Hair Wash, 3/6, 5/-, 10/6, 21/-.
Arnica Wash 3/6, 5/-, 10/6.
&c.

EUCHRISMA.

Combines in one clear Fluid every valuable Component both of a Hair Tonic and Wash, 3/6, 5/-, 10/6, 21/-

EAU RACINE.

For renewing the original colour of Grey Hair; superior to all other Restorers, being perfectly simple in its Components. Price 6/-

An elegant Preparation for the Hair and Beard. Price 2/6, 3/6, 5/-, 10/6, 21/-.

BRILLANTINE.

H. P. TRUEFITT'S TONIC TOOTH BRUSH

(BY ROYAL LETTERS PATENT.)

PRICE ONE SHILLING.

10 & 24 Burlington Arcade; 13 & 14 Old Bond St., London.

MUSK
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IMPORTER AND EXPORTER OF

ALL ESSENTIAL OILS

Wholesale and Export only

QUOTATIONS ON APPLICATION

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A. S. LLOYD'S EUXESIS,

FOR

SHAVING WITHOUT SOAP, BRUSH, OR WATER.

CAUTION.

The only Genuine has a yellow label printed ONLY in Black Ink, and bears the original address of the late inventor, "27 Glasshouse Street, Regent Street," the proprietors having purchased, under an administration suit, the Secret, Trade Mark, Goodwill, and Premises.

SOLE PROPRIETORS

R. HOVENDEN & SONS, LONDON.

WEDGWOOD ACID-PROOF

MORTARS AND PESTLES.

ALSO MANUFACTURERS OF

Funnels, Evaporating Pans, Electric Battery Fittings, Bed Pans, Urinals, Medicine Spoons, Physic Cups, Sick Feeders, Bleeding Basins, Medicine Measures, Eye Cups, Inhalers, Nursery Lamps, Wall Tiles, &c.

PRICE LIST ON APPLICATION. SPECIAL QUOTATIONS FOR LARGE ORDERS.

Any Article not bearing the Stamped Trade Mark "WEDGWOOD" is not made by us.

JOSIAH WEDGWOOD & SONS, ETRURIA, STOKE-ON-TRENT.

London Rooms—ST. ANDREW'S BUILDINGS, HOLBORN CIRCUS.

HATRICK & CO., LIM., 31 SNOW HILL, LONDON,

AGENTS FOR:—

WELLS & RICHARDSON CO.'S DIAMOND DYES.

3*d.*, 21/- per gross; 6*d.*, 41/- per gross. *Put up in nearly all languages for export.*

JUST OUT ◇ **DYE INDELIBLE MARKING INK.** Price 6*d.* per bottle, 41/- per gross. No heat required. Can be used with any pen. In dozens only, in neat Metallic Stand.

◇ **LAUNDRY BLUING.** Price 6*d.* per packet, 41/- per gross. One packet makes one quart. Warranted not to injure, streak, or spot the finest fabrics.

IMPROVED BUTTER COLOUR. This article will be found the best in the Market, owing to recent improvements in manufacture. 6*d.* bottles, 4/- doz.; 1/- size, 8/- doz.; 2/- size, 16/- doz.; 4/- size, 32/- doz. *For Butter only.*

GOLDEN EXTRACT OF ANNATTO for Colouring Cheese. 6*d.* size, 3/6 doz.; 1/- size, 7/- doz.; 1/9 size, 10/- doz.; 2/9 size, 19/- doz.; 5/- size, 33/- doz.; 10/- size, 66/- doz.

LACTATED FOOD for Infants and Invalids. 1/- size, 8/- doz.; 2/- size, 16/- doz.

KIDNEY WORT. 4/6 per bottle, 39/- per doz. In dry form, 4/6 per can, 39/- per doz.

CELERY COMPOUND. 4/6 per bottle, 39/- per doz.

LUCILLINE (Pure Petroleum Jelly). Melting-point, 97° F. Guaranteed perfectly pure and harmless. Can be used internally. All grades from crude to highly refined. *Best Quality.*—In various sized tins, elegantly decorated, 2 oz. to 10 lbs; strong wooden pails, 25 lbs. and 50 lbs.; barrels, 200 lbs. and 350 lbs. *Veterinary Brand.*—In 1, 5, and 10 lb. tins; pails and barrels as above.

LONDON AND EXPORT AGENCY FOR

R. T. DUN & CO.'S IMPROVED SOFT AND HARD GELATINE CAPSULES.

HINKSMAN'S ASTHMA RELIEVER. 1/- tins, 9/- per doz.

OF ALL WHOLESALE HOUSES. PRICE LISTS ON APPLICATION.

A. S. LLOYD'S EUXESIS.

FOR SHAVING WITHOUT SOAP, WATER, OR BRUSH.

CAUTION.

The labels on genuine EUXESIS bear signature of Inventor, A. S. LLOYD in BLACK INK, and the signature of his Widow, AIMÉE LLOYD in RED INK. Refuse all others.

Manufacturer: **AIMÉE LLOYD**

(WIDOW OF A. S. LLOYD, FORMERLY OF 27 GLASSHOUSE STREET),

3 SPUR STREET, LEICESTER SQUARE, LONDON.

N.B.–When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S)

MARVELLOUS SUCCESS.

SALE STILL INCREASING.

HIGHEST AWARDS WHEREVER EXHIBITED.

GOLD MEDAL, 1889.

BRONZE MEDAL, 1888.

(HIGHEST AWARD.)

SPECIAL AWARD, 1890.

SEE OPINIONS OF THE PRESS, AND TESTIMONIALS FROM ALL PARTS OF THE WORLD.

PETAL DUST.

(REGISTERED)

The Great Floral Air Purifier and Everlasting Perfume.

PRICES.

3d. Size, in Boxes containing	3 dozen	...	...	...	...	6s. 0d. per box } Net.
6d. ,, ,,	1 ,,	...	...	...	...	3s. 6d. ,, } Net.
1s. ,, ,,	1 ,,	...	...	...	...	7s. 0d. ,, } Net.

Order through your Wholesale House, or, CASH WITH ORDER, direct from SOLE PROPRIETORS—

THE ROSMARINE MANUFACTURING CO., LONDON AND PHILADELPHIA.

LONDON OFFICE—54 STAMFORD STREET, LONDON, S.E.

CITY DEPOT—H. C. QUELCH, 1 LUDGATE SQUARE, LONDON E.C.

Sole Agents for India—ROWE & CO., RANGOON.

Established 1777.] *Essences and Essential Oils direct from the Distillery.* [Established 1777

E. F. LANGDALE,

WHOLESALE CHEMIST,

Distiller of Essential Oils, Perfumes, and Flavouring Essences.

ESSENCE DISTILLERY AND LABORATORY:—

72 and 73 HATTON GARDEN, LONDON, E.C.

FINEST QUALITY NEW ESSENCES—Lemon, Bergamot, and Orange.

SPECIALITY.—Ol. Amygd. Ess. S.P.A., by Langdale's process.

PRICE & CO.

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WHOLESALE AND EXPORT PERFUMERS

DISTILLERS OF ESSENTIAL OILS & ESSENCES FOR PERFUMERY TRADE,

BY APPOINTMENT TO HER MAJESTY & THE ROYAL FAMILY,

72 & 73 HATTON GARDEN, LONDON.

Established over a Century at 28 Lombard Street (and late 246 Regent Street, W.).

Specially Pure Highly-scented Violet and Millefleur Powder, Golden Oil, Macassar Oil, Fancy Soaps, &c. &c.

Sole Proprietors of J. Delcroix & Co.'s Specialities—Concentrated French Extracts, Choice Perfumes, &c., &c. (late 158 New Bond Street).

Indentors should specify PRICE & CO., HATTON GARDEN.

THE "STIPENDUM" STOPPER CO., LIM.

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Manufacture the following Specialities—

"STIPENDUM" CORK STOPPERS, in all sizes.

"STIPENDUM" CORK-LINED CAPS, for Pomade Bottles.

"STIPENDUM" SCREW CAPS, for Pomade Bottles.

"STIPENDUM" OPENERS, for Stoppered Aërated Water Bottles.

"STIPENDUM" GREASE-PROOF COVERED POTS

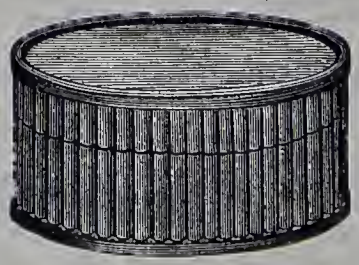
IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly fitting lids, are practically unbreakable, and the only article really answering the purpose intended.

The following Analytical Report should be noted by the trade:—

London, *January* 5, 1891.

"We have examined the two covered pots marked November 21, 1890, one containing strong nitrate of mercury ointment, and the other iodine ointment, the object being to discover—(1) Whether the ingredients of which the pots are composed have in any way affected the ointments; (2) Whether the pots have been deteriorated by the action of the ointments.



We hereby certify that no trace of any of the ingredients of the pot can be discovered in either of the ointments, and further that the pots themselves were found not to have been acted on at all; and we further consider 'Stipendum' admirably adapted for such pharmaceutical preparations.

Signed, C. T. KINGZETT, F.I.C., F.C.S.
(Ex Vice-President Society of Public Analysist)
R. H. HARLAND, F.I.C. F.C.S.
(Public Analyst)."

To be had of all Druggists' Sundriesmen. *Wholesale only of the Company.*

ROBERT FRÈRES

PERFUMERS, GRASSE, FRANCE:

MANUFACTURERS OF THE WORLD-KNOWN

TRIPLE ESSENCES

NOVELTIES—QUEEN'S BOUQUET

(Composed in honour of Her Majesty's visit to Grasse)

LA RIVIERA, WALDHAUS, CARNATION.

Samples and Prices may be obtained from

R. HOVENDEN & SONS,

91 & 95 CITY ROAD, E.C., and 31 & 32 BERNERS STREET, OXFORD STREET, W., LONDON,

Where stock of all Extracts in bulk is kept.

SUPERFATTED MEDICINAL SOAPS

PREPARED FROM PRESCRIPTIONS AND UNDER THE CONSTANT CONTROL OF

Dr. MED. J. EICHHOFF, Senior Physician to the Wards for Skin and Venereal Diseases of the Elberfeld Hospital.

FIRST SERIES.

SUPERFATTED RESORCINE SALICYLIC SOAP.
In Parasitic Eczema, Seborrhœa Capitis.

SUPERFATTED RESORCINE SALICYLIC SULPHUR SOAP.
In Parasitic Eczema, Acne Vulgaris, Acne Rosacea.

SUPERFATTED RESORCINE SALICYLIC SULPHUR TAR SOAP.
In Psoriasis Vulgaris.

SUPERFATTED QUININE SOAP.
In mild cases of Mycosis, especially Pityriasis Versicolor.

SUPERFATTED IODOFORM SOAP.
For Chronic Ulcers, Venereal Boils, &c., and also in the Massage Treatment of Small Tumours and Exudations.

SUPERFATTED HYDROXYLAMINE SOAP.
In Lupus, Psoriasis, Tinia Tonsurans and Parasitic Sycosis.

SUPERFATTED CREOLINE SOAP.
In Scabies, Impetigo Contagiosa, Intertrigo, Lupus.

SUPERFATTED ERGOTINE SOAP.
In Rosacea, Angiectasis, mild cases of Varix, and in the Massage Treatment of Migraine.

SUPERFATTED IODINE SOAP (READILY SOLUBLE).
For Small Tumours, Indolent Ulcers, Lupus, Parasitic Eczema, Sycosis and Mycosis.

SUPERFATTED SALICYLIC CREOSOTE SOAP.
For Lupus.

SECOND SERIES.

SUPERFATTED MENTHOL SOAP.
In General and Local Pruritus (especially Genital and Anal).

SUPERFATTED SALOL SOAP.
In Parasitic Eczema, Psoriasis, Eczema, Marginatum and Mycosis.

SUPERFATTED ARISTOL SOAP.
In Psoriasis, Ulcus Cruris, Dermatomycosis, Syphilitic Gummata, Ulcerating Lupus.

SUPERFATTED SULPHUR CAMPHOR, PERUVIAN BALSAM SOAP.
In Acne Vulgaris and Seborrhœa of the Body or Face.

SUPERFATTED SALICYLIC ICHTHYOL SOAP.
In Acne Vulgaris, Acne Rosacea and Eczema; also in the Massage Treatment of cases of Articular and Muscular Rheumatism.

SUPERFATTED THYMOL SOAP.
Recommended as a Pure Hygienic Soap for daily use, especially for children.

SUPERFATTED RESORCINE SOAP.
Seborrhœa, Parasitic Eczema and Erysipelas.

SUPERFATTED ICHTHYOL TAR SOAP.
Dermatomycosis, Psoriasis, Chronic Palmar and Plantar Eczema.

SUPERFATTED MENTHOL EUCALYPTOL SOAP.
Urticaria, Prurigo, also in the Massage Treatment of Migraine, as well as a disinfecting soap for medical men, patients and their attendants (in infectious cases).

SUPERFATTED SALICYLIC SOAP.

SUPERFATTED SALICYLIC SULPHUR SOAP.

SUPERFATTED SALICYLIC SULPHUR TAR SOAP.
For the same cases as in the three first-mentioned soaps.

SUPERFATTED SUBLIMATE SOAP, ½ AND 1 %.
As Disinfecting Soap.

SUPERFATTED BENZOIC SOAP.
A Sanitary Toilet Soap for Intertrigo, Scurf, &c.

SUPERFATTED PINE-NEEDLE EXTRACT SOAP.
In Massage Treatment of Rheumatic Affections and Parasitic Skin Diseases, also as a Disinfecting Soap for medical men, patients and attendants.

SUPERFATTED THIOL SOAP, 5 % AND 10 %.
In Parasitic Eczema, Mycosis, Acne Vulgaris, Acne Rosacea.

(c. f. "Dermatologische Studien," Second Series, Vol. I. for 1889, and also "Volkmann'sche Sammlung Klinischer Vorträge," New Series, Vol. IV. 1890.)

Sole Manufacturer:—FERD. MULHENS, No. 4711, Glockengasse, Cologne-on-Rhine.

Under the constant supervision of Mr. J. BRASCHOSS, of Cologne, Pharmaceutical Chemist.

Agents for the United Kingdom—KROHN BROTHERS & CO., Billiter Buildings, Billiter Street, London, E.C.

S.V.R., B.P.

We wish to draw the attention of Chemists to the excellence of the spirit we supply for pharmaceutical purposes. We have devoted great care and attention to this branch and have made it a leading line.

That our efforts in this direction have been appreciated is proved by the number of *unsolicited* testimonials we have received from nearly every town in the country, of which the following is a specimen :—

The Pharmacy, Morecambe.

GENTLEMEN,—

Please send 5 gall 56 o p. as before. I have pleasure in saying I have always found your spirit answer all tests, which is more than I can say of all I have had from different places, and also to be practically free from odour.

Messrs. Stephen Smith & Co. Yours faithfully, JOSH. N. CUTTS, B.Sc., F.C.S.

SPECIALITY FOR PERFUMERY.

This pure grain spirit, which has been thrice rectified and filtered through charcoal, is being largely used in making high-class Perfumes.

STEPHEN SMITH & CO., BOW, LONDON, E.

NET CASH - WITH ORDER.

S 0/56 19/4 **V** 0/60 19/10 **R**

PERFECTLY PURE.

FIT FOR ANY PURPOSE.

PURE ORANGE WINE.

ST. ANDREW'S DISTILLERY 49 CLERKENWELL RD., E.C. GEORGE PHILLIPS & C° LONDON

S 0/61 2/7 **V** 0/64 2/8 **M**

FINEST QUALITY.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.

Per doz. 42/- Per doz. THE CREAM OF SCOTCH BLENDS. Per doz. 42/- Per doz.

S. V. METH.

JONES & COMPANY,

COPPERFIELD ROAD

LONDON, E.

LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in 5-gallon quantities at Lowest Prices.

REDUCTIONS TO LARGE BUYERS.

SAMPLES FREE.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS

ALLHALLOWS' LANE, & BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S.V.R.** Methylated Spirit and Finish on application.

FINEST ORANGE WINE FOR QUININE.

JAMES BURROUGH,

S.V.R. 56 o.p. 60 o.p.

CALE ST., CHELSEA, S.W.

and Methylated Spirit

AT LOWEST PRICES.

WRITE FOR QUOTATIONS.

POSITIVELY THE BEST HAIR DRESSING
FOR STRENGTHENING, BEAUTIFYING, AND PRESERVING THE HAIR.

EDWARDS' "HARLENE"

WORLD-RENOWNED HAIR PRODUCER AND RESTORER.

FOR THE HAIR.

FOR THE HAIR.

Handsomely framed Show-card (facsimile) of above, in 15 colours, size 16 by 21, and 1,000 Counter Bills, with Name and Address of Agent, will be sent through any Wholesale House on application to us or your Wholesale Agent.

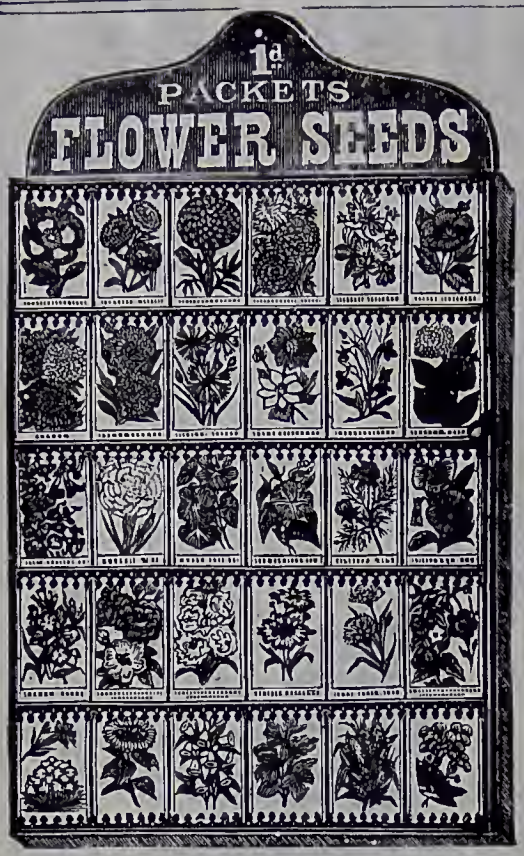
RUBY GLASS TABLETS, WITH SILVER WRITING, FIXED ON DOORS OR WINDOWS FREE OF CHARGE.

1s., 2s. 6d., 3s. 6d., and 5s. 6d. per Bottle, from Chemists, Hairdressers, and Perfumers all over the world.

MANUFACTURED ONLY BY

EDWARDS & CO., 95 HIGH HOLBORN, LONDON, W.C.

100 PER CENT. PROFIT!



THE "WINGED LION" BRAND

SEEDS IN PACKETS.

Flower Seeds	in	1d.	packets	- 6/-	per gross
Vegetable	,,	1d.	,,	- 6/-	,,
Bird	,,	1d.	,,	- 8/6	,,
,,	,,	2d.	,,	- 15/6	,,
,,	,,	4d.	,,	- 26/-	,,
Lawn Grass	,,	3d.	,,	- 2/3	per doz.
,,	,,	6d.	,,	- 4/-	,,
,,	,,	1/-	,,	- 7/6	,,

The "Winged Lion" Packets are most artistically designed, and printed in colours. Full cultural directions are given with each packet.

THE "UNIVERSAL" PLANT FOOD,

For producing Prize Plants and Blooms.

INVALUABLE FOR WINDOW AND COTTAGE GARDENING.

This Food is a compound of Chemical constituents absolutely necessary for the healthy growth of plant life. Poor soils are permanently enriched by its application, and gardens long neglected and unmanured produce vigorous flowers and vegetables when the Food is used as a top dressing. Will be found invaluable by growers of Roses, Crysanthemums, Dahlias, &c., also of choice Vegetables, Cucumbers, &c.

Price in 2d. Packets (packed on ¼-gross Cards), **12/- per gross. 6d. Tins, 4/- per doz.**

SEND POST-CARD FOR COMPLETE LIST AND SAMPLES.

POTTER & CLARKE,

WHOLESALE BOTANIC DRUGGISTS AND SEED MERCHANTS,

5, 6, & 7 RAVEN ROW, ARTILLERY LANE, LONDON, E.

THE ARMBRECHT COCA WINE

ORIGINAL.

COCA WINE (ARMBRECHT.)

ORDER SHEET.

_____ 18

Gentlemen,

Please to send immediately, on receipt of this by _____

Doz.	Coca Medium ...	... retail price	48/- doz.
"	Coca Burgundy ...	... "	48/- "
"	Coca Malaga ...	... "	48/- "
"	Coca Port ...	... "	48/- "
"	Coca Sherry ...	... "	48/- "
"	Coca Champagne ...	... Quarts, retail price	56/- "
"	" ...	... Pints, "	33/- "
"	Coca Wine Extract...	... Bottles, "	42/- "
"	" ...	" "	66/- "
"	Coca Lozenges ...	... Box, retail price	18/- "
"	" ...	... Tin, "	30/- "
"	PAMPHLETS FOR DISTRIBUTION—NO CHARGE.		

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To _____

Address _____

Messrs. ARMBRECHT, NELSON & Co.,
2, 3, and 4, Duke Street, and 3, Tom's Court,
Grosvenor Square, W.

To ensure prompt delivery Cheque must be enclosed with each order.

PADBURY'S CELEBRATED

PIG POWDERS

Have, as a result of Fifty Years' thorough proving in varied climates, come to be universally recognised as

INFALLIBLE.

There are three distinct remedies—
1. For the DISTEMPER or MURRAIN, and for GENERALLY POOR CONDITION.
2. For WORMS.
3. For SCOURING or UNDUE LOOSENESS of THE BOWELS.

These are attractively packed in exact doses for various ages, with Counter Bills and Show Cards. They yield a handsome profit to the retailer, and may be had through any London or Provincial House, or from the Sole Proprietors—

WEBB, FARDON, & CO., Castle Street, BRISTOL,

Who will be pleased to answer all inquiries.

HALL'S SHEEP DIP.

HALL'S FOOT-ROT OINTMENT, HOOF OINTMENT, STABLE SOAP, DOG SOAP, ANTISEPTIC DISINFECTANT, &c.

Patronised by Her Majesty the Queen, His Royal Highness the Prince of Wales, and the Leading Breeders and Exhibitors at Home and Abroad.

Manufactured by ROBERT HALL & CO., PORTSLADE, SUSSEX.

Home and Colonial Agents wanted in districts unrepresented.

REGISTERED TRADE MARK. Established 1866. Works: Aldrington Basin. Telegrams: "Dip Portslade."

Used on the Royal Farms at Windsor, Osborne, and Sandringham, and by the principal Stockbreeders everywhere for nearly 60 years.

DAY, SON & HEWITT'S

HORSE, CATTLE, AND SHEEP MEDICINES.

THE CHEMICAL EXTRACT.

For assuaging pain and inflammation in all wounds, saddle galls, strains, bruises, swellings, and relaxed tendons in Horses. For paining after calving and lambing, and for swollen udders and sore feet.

2s. 6d. per Bottle; ½-dozen Box, 7s. 6d.

THE RED DRENCH.

Celebrated for inflammatory disorders, such as fevers, pleurisy, foot-and-mouth complaints, yellows, surfeit, and red-water. Also for difficult calving and lambing. Admirably adapted for cleansing and checking feverish symptoms in Cows and Ewes after a bad time of parturition.

For Sheep, 3s. 6d.; for Cattle, 18s. per dozen Box.

THE GASEOUS FLUID.

Unmatched for colic or gripes and debility in Horses, for colds, chills shivering fits, flux and diarrhœa in Cattle, Calves, and Sheep. For Ewes weakly after lambing and blown Cattle and Sheep, its effects are marvellous

20s. per dozen Box.

THE GASEODYNE.

Used as laudanum in uncontrollable spasmodic pains and violent bowel complaints. Invaluable for parturition in Mares, Cows, and Ewes.

3s. 6d. per Bottle: ½-dozen Box, 10s. 6d.

THE RED PASTE BALLS and RED POWDERS.

For ill-conditioned Horses and Colts; invaluable after hard hunting or driving. For coughs, colds, staring coat, itching, swollen legs and want of strength. The powder given in the feed will produce fine appetite and tone

7s. 6d. per dozen; 3-dozen Box, 21s.

THE BLACK PHYSIC BALLS.

These Balls are matchless for thoroughly cleansing the system of all impurities, and for assisting in the expulsion of Worms. Their purgative action soon relieves Costiveness of the Bowels, and checks all Feverish Symptoms arising from gross habit.

Price, 8s. per dozen; Box containing 3 dozen, 23s.

THE BRONCHOLINE.

The great and reliable remedy for Husk or Hoose in Cattle, Heifers Calves, and Sheep. Its gaseous odour destroys the worm or parasite in the windpipe, removes the hard cough, and soothes the lungs and other organs

2s. 6d. per Bottle; ½-dozen Box, 7s. 6d.

THE "KEY TO FARRIERY."

A small work published by us on the general ailments of stock, their treatment and cure.

Large Edition, in Cloth, 2s. 6d. Small Edition, 1s.

		Price
The Stockbreeder's Medicine Chest.	No. 1 contains a complete assortment of all our preparations for treating diseases of stock generally,	£6 6 0
The Stockbreeder's Medicine Chest.	No. 2 is suitable for ordinary Farm use, and contains a useful selection of the above Medicines	2 16 0
The Horsekeeper's Medicine Chest.	No. 3 is arranged for large Horse Owners, Collieries, &c., and contains 12 specially selected Medicines	5 5 0
The Horsekeeper's Medicine Chest.	No. 4 contains a smaller assortment, but has everything requisite for all ordinary ailments in Horses	2 17 0

Prepared only by DAY, SON & HEWITT, 22 DORSET STREET, LONDON, W.

LIBERAL DISCOUNT TO FOREIGN BUYERS. *LIST AND PARTICULARS OF AGENTS ON APPLICATION.*

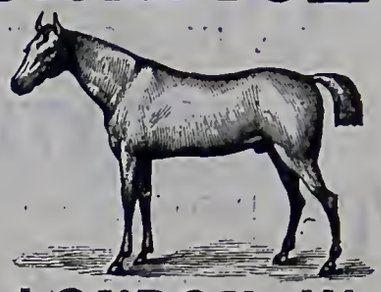
A VALUABLE AGENCY!!!

BIRD'S BOTANIC ESSENCE

(REGISTERED TRADE MARK).

THE CERTAIN CURE

For Curbs, Splints, Spavins, Strains in the Back Sinews, Windgalls, Capped Hocks, Sore Throats, &c., in Horses.



As used in the Stables of the Royal Families, Nobility, the Leading Trainers, and largest Horse Owners throughout the World for over 60 years.

Obtains a large sale (and affords a handsome profit) wherever introduced. May be procured of all Wholesale Houses, or direct from Sole Proprietors—

BIRD & STOREY, 42 Castle Street East, Oxford Street, **LONDON, W.**

WILEY'S CHEMICAL ESSENCE

FOR

LAMENESS IN HORSES.

HANDBILLS, WITH NAME & ADDRESS, SUPPLIED GRATIS.

50 YEARS' UNBROKEN SUCCESS.

SOLE MAKER AND PROPRIETOR, FRANCIS E. ROOKLEDGE, CHEMIST, EASINGWOLD, YORK.

TO BE HAD OF USUAL WHOLESALE HOUSES.

HORSE, CATTLE, & SHEEP MEDICINES.

The finest Pain-killer, Stimulant, and Tonic in the World.

For other Medicines see our Prospectus.

Cures like a charm Colic and Colds in Horses and Cattle.
Cures Scour in all Young Stock.
Instantly relieves Blown Cattle and Sheep.
For Debility, Chills, and Low Condition.
For weakness and Pain after Calving and Lambing.

For other Medicines see our Prospectus.

10/- per Half-Dozen, or 19/- per Dozen Bottles.

For Particulars apply **DAY & SONS, CREWE, CHESHIRE, ENGLAND.**

Largest Sale in the World. Established 1840. Liberal Discount to Foreign Buyers. Foreign Buying Agents Wanted.

THE NEW EMBROCATIVE BALM FOR HUMAN USE.

DAY'S OIL OF THE NIGHT

STIMULATING. STRENGTHENING. FRAGRANT.

For Sprains, Lumbago, Rheumatism, Cramp, Chest Colds, Chilblains, &c., and general Aches, Pains, and Soreness. 1/1½ and 2/9 per bottle.

DAY & SONS, CREWE, CHESHIRE.

A "STORES" CAUGHT!

Mr. JUSTICE STIRLING.—October 30, 1891.

KEATING *v.* KIBBLE & CO.

THE Defendants are Proprietors of large Stores at Deptford, and when asked for "Keating's Powder," sold by their shopmen an article not made by me. The Defendants denied that this was done with their knowledge, and this may be conceded, but it cost them over £40, although in this instance I pressed my Solicitors to be as considerate to them as possible. The Court ordered the Defendants to pay the whole costs of the action, and issued an injunction restraining them from offering for sale any preparation other than that prepared by Thomas Keating under the name of "Keating's Insect Powder."

IMPORTANT NOTICE.

12 Bride Lane, London, E.C., *March* 15, 1892.

WHEREAS I have reason to believe that certain persons have sold to Customers Packets of what they represent to be KEATING'S INSECT POWDER, which Powder has not been manufactured by me, I HEREBY GIVE NOTICE that I shall institute Legal Proceedings against persons found to be improperly selling any but Keating's Insect Powder to customers asking for it, which action renders them liable to very heavy penalties.

THOMAS KEATING.

A CHEMIST.—HEAVY DAMAGES.

In the High Court of Justice—Chancery Division. Mr. JUSTICE NORTH—October 26, 1886.

KEATING *v.* POLL.

IT WAS ORDERED—

That the Defendant be perpetually restrained from stating or causing to be stated that Keating's Persian Insect Destroying Powder contains **any substance poisonous to animals or human beings,** or from making any statement to the effect that such Powder is dangerous to animals or human beings.

IT WAS FURTHER ORDERED—

That the Defendant, William Sheppard Poll, do pay to the Plaintiffs their costs of this action.

"Sanitas" Disinfectants & Appliances

TO THE TRADE.

Gentlemen,

At the commencement of another season we respectfully urge upon you the desirability of at once examining your stock of "SANITAS" Preparations and Appliances, and of making it up as may be required. We have already the largest sale in the world for Disinfectants, and doubtless the demand will prove larger than ever this season, for we shall not abate our efforts to please the Public and meet its demands, while not forgetting what is due to the Trade.

Many Chemists appear not to know that we make and sell some 40 different "SANITAS" Preparations and Appliances, besides "Kingzett's Mercuric (and other) Bactericides," and "Kingzett's Patent Preserved Peroxide of Hydrogen." Such Chemists should at once send for our list.

"SANITAS" OIL, for use in Influenza, and Lung and Throat Affections generally, is still in active demand, and the following Appliances are selling splendidly, viz.:—

"SANITAS" INHALERS, 2/6 each.
"SANITAS" DISINFECTORS, 2/6 each.
"SANITAS" FUMIGATORS, 3/6 each.
"SANITAS" SPRAY PRODUCERS, 2/6 each.

OUR PREMISES.—Owing to the increase in our trade we have had again to add a new block of premises to our Works, and the increased accommodation they afford will enable us to deal promptly with all orders with which we may be favoured.

NEW CARRIAGE REGULATIONS.—London RETAIL TRADE orders amounting to not less than £1 net are delivered free within the limits of our own or Messrs. Carter, Paterson & Co.'s deliveries.

Country RETAIL TRADE orders, amounting to £3 net and upwards, are now sent carriage paid.

London WHOLESALE TRADE orders, amounting to not less than £3 net, are delivered free within the limits indicated above, and Country WHOLESALE orders, amounting to not less than £5 net, only, are sent carriage paid.

ADVERTISING MATTER will always be sent on application to

Your faithful Servants,

THE "SANITAS" Coy., LIMITED.

Letchford's Buildings, C. T. KINGZETT, F.I.C., F.C.S., *Managing Director.*
Three Colt Lane, Bethnal Green, London, E.,
February 29, 1892.

THE FLY CEMETERY

BY ROYAL LETTERS PATENT. "CATCHES MORE FLIES IN A DAY THAN THE OLD FASHIONED PAPERS DO IN A WEEK." SOLD ALL OVER THE WORLD. PRICE ONE PENNY.

HAS THE LARGEST SALE OF ANY FLY PAPER.

Nearly the whole of the leading Wholesale Houses have testified to its popularity and immense sale.

ONCE INTRODUCED THEY SELL FREELY.

BEWARE OF SPURIOUS AND USELESS IMITATIONS.

"HONEY FLY GUM."

THE STICKIEST STICKER EXTANT.

A thin coating of this Gum applied to a twig or piece of string and suspended will quickly catch hundreds of flies. In Patent Air-tight Tins. Price Sixpence.

THIS ARTICLE IS SPECIALLY SUITED FOR EXPORT.

TUNBRIDGE & WRIGHT, Fly Paper Manufacturers, READING.

TELEGRAPHIC ADDRESS—"FLIES READING."

HAS THE LARGEST SALE OF ANY SMELLING BOTTLE IN THE WORLD.

It is the most popular shilling article in the market, being well got up and largely advertised, commands a rapid sale, bears a large profit, and gives universal satisfaction.

Counter prescribers can recommend it with confidence for cold in the head, nervous headache, and faintness. Sent out in ½-dozen cases. Wholesale from all the Patent Medicine Depôts.

Show Cards and Handbills from MACKENZIE'S CURE DEPOT, READING, ENGLAND.

Depot for United States and Canada—THE MACKENZIE DRUG COMPANY, Ltd., CHICAGO, ILL., U.S.A.

SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a **SLIGHTLY ALKALINE REACTION.**

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste, easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion, it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

WHOLESALE AGENTS—

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

Telegrams: "Troches Manchester."

BLYTON, ASTLEY & CO.

Telegrams: "Troches Manchester."

Pharmaceutical Chemists,

EAGLE LABORATORIES,

MANCHESTER,

Manufacture for the Home and Foreign Markets goods of standard quality, as under—

PHARMACEUTICAL CONFECTIONERY.—Comprising Medicated Lozenges of the British, Throat Hospital, and all London Hospital Pharmacopœias, general and proprietary formulæ. Medicated Jujubes and Pastilles, moulded or cut, plain or crystallised. Worm Cakes for children, chocolate, sugar, or gingerbread. Sulphur Tablets and Lozenges, plain or compound. Cachous, in a great variety of flavours and shapes, ordinary, diamond, oval, and spherical. **LIQUORICE PELLETS, MADE FROM HIGHLY-REFINED JUICE, AN EXCEEDINGLY PURE ARTICLE.** Boiled Sweets, special quality for Chemists, manufactured chiefly from real fruit flavours. Complete list on application.

GRANULAR EFFERVESCING PREPARATIONS.—Comprising the ordinary qualities of Mag. Cit. Gran., and all the medicated varieties, prepared from pure Bicarbonate of Soda and English refined acids. Complete List on application.

SOLUBLE COATED PILLS.—Pearl or Gelatine Coated; the drugs used are genuine, and of he best quality, whilst the excipients are selected to preserve the properties of the ingredients and facilitate the solubility of the pills. Special quotations for Aperient, Antibilious, Cough, Blaud's, and the "Little Pill" series. Pills rolled, cut, and coated to order from private formulæ. Complete list, enlarged and revised, on application.

EXTRACT OF MALT.—We invite comparison, both in the matter of flavour, appearance, and value as a digestive and therapeutic agent. Its special qualities are due to the amount of unaltered diastase it contains, and its freedom from alcoholic compounds and carbonic acid. Apart from its highly nutritious qualities, it is an invaluable adjunct to all kinds of farinaceous foods, as puddings, porridge, arrowroot, &c., &c. It keeps indefinitely in any climate, and is packed in one and two shilling bottles. We also pack it in the same style combined with the finest Cod Liver Oil.

NEW ILLUSTRATED LISTS MAILED FREE TO REGISTERED CHEMISTS UPON RECEIPT OF BUSINESS CARD.

PLEASE CORRESPOND WITH US: WE WANT YOUR BUSINESS.

[See Opposite Page.

Telégramas: **BLYTON, ASTLEY & CIA.** Telégramas:

"Troches **Pharmaceutical Chemists,** "Troches

EAGLE LABORATORIES,

Manchester." **MANCHESTER.** Manchester."

Fabricantes de los siguientes productos de superior calidad para los mercados del pais y del extranjero.

CONFECCIONES FARMACÉUTICAS.—Comprendiéndose entre ellas, pastillas del Hospital Británico para enfermedades de la garganta, y las fórmulas generales y de propiedad particular de las Farmacopeas de todos los hospitales de Lóndres. Toda clase de pastillas medicinales moldeadas, cortadas, sencillas ó cristalizadas. Pastillas para matar las lombrices, chocolates, azúcar y pan de gengibre. Tablillas y pastillas de azufre sencillas ó compuestas. Pastillas de menta en todos los diferentes tamaños, formas y calidades. Cachundes en gran variedad de forma y sabor, ordinarios, en forma de diamante, ovalados y esféricos. Bolitas de regaliz confeccionadas con jugo sumamente refinado y de extrema pureza. Bonbones y pastillas de verdaderos zumos de frutas fabricados especialmente para los Farmacéuticos. Lista completa á los que la soliciten.

PREPARACIONES GRANULARES EFERVESCENTES.—Comprendiéndose entre ellas las calidades ordinarias de Cit. Mag. Gran. y todas las variedades medicinales de la misma, preparadas con Bicarbonato de Sosa puro y ácido refinado inglés. Lista completa á los que la soliciten.

PILDORAS REVESTIDAS Y SOLUBLES.—Pildoras perladas y cubiertas de gelatina. Las sustancias empleadas en su confeccion son puras y de la mejor calidad y los exipientes escojidos para que conserven las propiedades de los ingredientes y faciliten la solubilidad de las pildoras. Cotizaciones especiales para pildoras aperitivas, antibiliosas, contra la tos, del Dr. Blaud y toda la serie de pildoras semejantes. Nos encargamos de redondear, cortar y cubrir pildoras confeccionadas de formulas de propiedad particular. Se manda lista completa, ampliada y revisada á los que la soliciten.

EXTRACTO DE MALTA (cebada germinada).—Invitamos comparacion respecto á su sabor, apariencia y valor como agente digestivo y terapéutico. Sus cualidades especiales son debidas á la cantidad de diastasia germinada que contiene y á su inmunidad de compuestos alcohólicos y de ácido carbónico. Ademas de sus cualidades eminentemente nutritivas es un excelente adjunto á toda clase de alimentos farinaceos, como pudines, tapioca, etc. Conserva indefinidamente y en cualquier clima sus propiedades y se manda preparado en botellas de uno y dos chelines cada una. Se prepara tambien por el mismo estilo con aceite de hígado de bacalao de la mejor calidad.

Se mandan nuevas listas ilustradas á los farmacéuticos registrados al recibo de sus targetas comerciales.

Solicitamos correspondencia, seguros de que los que nos honren con ella quedaran complacidos de la calidad y baratura de nuestros pruductos.

30/- CABINET

OF

BAILEY'S

ABC SUSPENSORY BANDAGES

A GOOD STRONG ORNAMENTAL STOCK BOX GRATIS with—

6 at	1/0	No. 1,	Cotton, with tape under-straps ...	4/0
6 „	1/6	No. 2,	„ with drawing-strings	5/0
6 „	2/6	No. 4,	Silk „ „	9/0
3 „	3/6	No. 6,	Super. Silk with „	6/0
3 „	3/6	No. 8,	„ „ with button-bags	6/0

Although so small a stock, it will be found sufficient in variety and sizes to suit anyone.

TESTIMONIAL *(one among many).*

The Foregate, WORCESTER.

GENTLEMEN,—Please repeat our last order for "Suspensory Bandages." We think your idea of arranging the sizes and qualities by the use of numbers and letters a very excellent one, as it is most convenient to the Chemist in ordering, and we find our customers make use of your method. It brings us many repeat orders. Yours faithfully, ANDERSON & VIRGO.

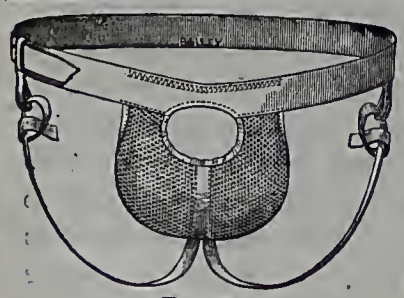


Fig. 1.

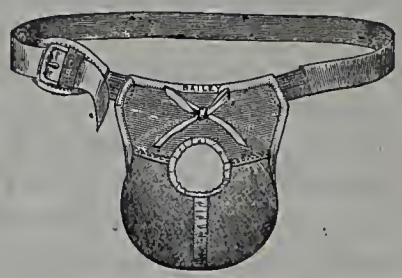


Fig. 2.

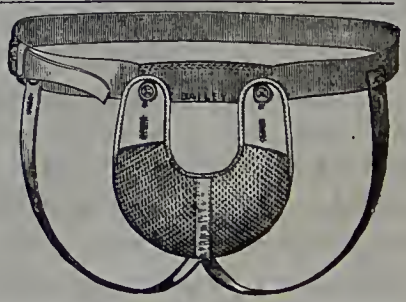


Fig. 3.

No trouble in fitting.
Repeat orders with certainty and secure custom.
Great saving of time. No unpacking for comparison.
No soiling.

Each one in separate box.
Box and Suspensory both marked with number corresponding to our list and letter indicating size of bag.

ALL ASSORTED.—A small, B medium, and C large bags. Each in Separate Box.

W. H. BAILEY & SON, 38 OXFORD ST., LONDON, W.

MATTERS OF INTEREST.

CHEMISTS WILL DO WELL to note the many advantages possessed by "Palatinoids" and "Bi-Palatinoids," and introduce the same to their local medicals, thereby raising for themselves a class of trade which cannot be trespassed upon by the neighbouring Grocers or Stores. **THEY WILL FIND THAT** delicate Patients (especially Ladies), Children, and all bad "pill takers" can swallow these with the greatest ease. They will find them accurately dosed, elegant in appearance, convenient, portable, and elegant. They are readily saleable, and bear the usual dispensing profit. **WE WOULD ESPECIALLY POINT OUT** to Chemists the superiority of the "Bi-Palatinoid" of Ferrous Carbonate (Blaud's Pill) over the many pills of variable strengths upon the market. **WE WOULD RESPECTFULLY REMIND** them that the chemicals necessary for the production of this salt must undergo decomposition if mixed, and become more or less inert by keeping.

The essentials of Pharmacy—Accuracy, Precision, Standardization.

'PALATINOID' & 'BI-PALATINOID' "PALATINOID" "BI-PALATINOID" (FERROUS CARBONATE) "BI-PALATINOID" (FERROUS PHOSPHATE)

Before immersion in water. After three minutes' immersion in water at normal temperature of stomach.

OPPENHEIMER, SON & CO., LTD., 14 WORSHIP STREET, E.C.

GRINDING

In all its branches by Patent and Improved Steam Machinery.

DRUGS, CHEMICALS, FULLER'S EARTH,

Seeds, Spices, Roots, Barks, &c.

JORDAN & CO., BERMONDSEY GRINDING MILLS,

WHITE'S GROUNDS, BERMONDSEY, LONDON, S.E.

MORRIS & CALLARD,

PONTAMMAN CHEMICAL WORKS,

AMMANFORD, R.S.O., CARMARTHENSHIRE,

MANUFACTURERS OF

ACETIC ACID, P.B., ACETIC ACID FORT., SP. GR. 1-040

ACETATE OF SODA,

PURE WOOD NAPHTHA, SULPHURIC ACID, & CHARCOAL

Telegraphic Address: "CALLARD, AMMANFORD." PRICES AND SAMPLES ON APPLICATION.

COUNTER WRAPPERS.

MOST Chemists will use a Counter-wrapper for the purposes for which it is intended if the size, quality of paper, and printing are satisfactory. Taking this view of the subject, we have had especially manufactured a paper adapted for this purpose—pure white, with finished surface, good weight, and firm texture. The printing of 50 millions, in three sizes—namely, 4 oz., 6 oz., and 8 oz.—we have entrusted to Mr. Alf. Cooke, of Leeds, whose reputation for turning out excellent work is a sure guarantee that the printing will be exceptionally good. These three sizes are composed of 72 different, specially illustrated designs from original pen-and-ink drawings of our Special Artist, Lieut.-Col. Marshman, of Bath. The printing is on one side only, not covering the entire surface of the paper, but leaving wide margins of white. Some of the illustrations are most artistic, all are original and registered.

From the foregoing it will be observed that we have spared no expense in our effort to supply the dealer with a counter-wrapper which he can use with credit to himself and us. Owing to the different sizes and designs we are unable to print dealers' names and addresses thereon.

"A SOUVENIR."

Our book, "A Souvenir," is admitted to be the best book of the year for free distribution. Size 8½ by 5½ inches, 48 pages, 53 illustrations, well printed on good paper, interesting reading matter, gives a full and complete illustrated description of the interior of our London house. Also "A Modern Sermon," "Our Baby," "Uncle Remus," "McCartys' Party." Lots of fun. Light and heavy reading, suited for all classes. Interesting from start to finish. Complimented by the Metropolitan and Provincial Press.

Chemists will find this book one that will please and interest their customers, as well as increase the sale of ST. JACOBS OIL, both the 2*s.* 6*d.* and 1*s.* 1½*d.* sizes.

We print dealers' names and addresses on the "Souvenir." We supply a French edition of this book to the foreign trade, or to any trade who have French customs.

A Section of the Advertising Supplies Department.

SHOW CARDS.

Various Show-cards for hanging up; Panel Transparencies in colours for affixing to glass, producing a beautiful effect; Hand Picture-cards for distribution; Book-mark Cards, and other novelties are included in each parcel.

ST. JACOBS OIL, 1/1½ SIZE

The phenomenal success attending the introduction of ST. JACOBS OIL at this popular price has been unprecedented in the history of proprietary medicines. Anticipating that a large demand would be made upon us as soon as it became known that this size was ready for delivery, we made, as we then thought, every preparation to meet same; we crowded our Bottling Department with extra help, made up a large stock of goods ahead, but found ourselves quite unable to fill even the first day's orders. Repeat orders came piling upon us even before the first orders were executed. With all our facilities for manufacturing and shipping (and these are equal to almost any emergency), we were unable to clear our orders for a period of two months.

The above shows conclusively that the 1*s.* 1½*d.* size ST. JACOBS OIL has come to stay, and that any Chemist who has not yet stocked same is standing in his own light. The sale of this small size in no wise interferes with the sale of the 2*s.* 6*d.* size; the former simply fills a place—namely, the great mass of people who are unable to purchase the 2*s.* 6*d.* size will have the 1*s.* 1½*d.* size, and if it

One View of the Laboratory.

cannot be had from one Chemist it will be procured from another. We trust, therefore, that every dealer in ST. JACOBS OIL will stock the 1*s.* 1½*d.* size if he has not already done so.

Special facilities will be offered foreign buyers of both sizes ST. JACOBS OIL. We particularly urge foreign dealers to place the small size in stock, either direct or through their London representatives; in either case we shall be pleased to supply a liberal quantity of the useful, original, and attractive advertising matter above referred to.

THE CHARLES A. VOGELER COMPANY

(WILLIAM E. GEDDES, European Manager).

Telegraphic and Cable Address:—"RUMATIX LONDON."

Telegraphic and Cable Night Address:—"EDUCIBLE LONDON."

Day Telephone No. 6714. Night Telephone No. 2794.

THE IDEAL NUTRITIVE BEVERAGE.

ESSENTIA MALTI—(KEPLER).

We have recently introduced a new food agent and aid to the digestion of farinaceous substances under the above name. This preparation is manufactured by a modification of the Kepler process for making the well-known Kepler Extract of Malt.

The Kepler Essence of Malt contains a large amount of diastase and natural mineral phosphates, and a considerable amount of tissue-forming substances. The immense superiority of this preparation over ale and stout is at once apparent when the process of manufacture is considered in detail. In making ale and stout, the carbohydrates (so valuable as nutrient material) and the diastase (a most important principle of Malt, being of special service in errors of nutrition accompanied by digestive derangement) are sacrificed for the production of alcohol: whereas in the Kepler Essence of Malt, these are carefully preserved intact. This essence is therefore an ideal aid to digestion and nutrient agent. A wineglass-full of the Kepler Essence of Malt contains more elements of nutrition than a pint of the finest alimental stout.

The flavour of the Essence of Malt is delicious. It is admirable as a table beverage, when diluted with acrated water, and as an addition to milk for infant and invalid dieting, for it sweetens it and facilitates its prompt and perfect digestion. The essence may be taken in coffee, gruel, acrated or plain water, wine, or mixed with any farinaceous pudding. As an addition to the food for young children, its value cannot be over-estimated; it increases the value of all farinaceous food, and prevents the starch and large clots of curd overtaxing the power of the digestive functions.

For Lactating women, the Essence of Malt (Kepler) contains many desirable properties; it quickly increases the flow and enriches the quality of the milk. It is serviceable as a laxative for young children, especially when constipation depends upon the defective digestion of starch. As a combined beverage and food, it cannot fail to be productive of the highest benefit, either in acute disease or during convalescence; in fact, wherever there is defective nutrition, the Kepler Essence of Malt cannot be surpassed in usefulness as a nutritive food.

As a Linctus, the Essence of Malt swallowed slowly affords marked relief in the troublesome dry laryngeal cough, the hacking cough of puberty or consumption, for it is pleasantly grateful and soothing, aids digestion, and builds up the tissues.

The Kepler Essence of Malt is supplied to the Trade in champagne pints at 14/ per doz.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

A CHAT ON MALT EXTRACTS,

AND

The reason why KEPLER EXTRACT is preferred by the Profession.

"MALT as a food has a great future before it." Thus, in 1835, wrote the late Dr. MILNER FOTHERGILL, and events have abundantly proved the truth of this prophecy. But although the use of Extracts of Malt has since become very general, the results of its employment have too often been disappointing. The cause of this failure may in some instances have been a faulty method of administering the article, but in the great majority of cases it is more probably to be accounted for by the use of a faulty Malt Extract. Dr. MURRELL, in THE LANCET, has written: "Extract of Malt is of such inestimable value in the treatment of all wasting diseases, both of children and adults, that any method which will help to secure the employment of good and reliable specimens must of necessity be of interest. I examined in all eleven specimens of Extract of Malt. Of the eleven, there were only two which under the conditions I have indicated would transform completely all the starch in thirty minutes, and of these one was more than three times as active as the other. Many of the specimens were of very poor quality, and possessed little or no diastasic power." Again, the late Dr. FOTHERGILL, in the MEDICAL PRESS for 1881, wrote: "Some Malt Extracts are raised to the boiling point in their preparation, and such are rendered useless as artificial digestive agents, because their diastase has been killed by so doing. In order to secure the action of vegetable diastase it is necessary to use a preparation of Malt Extract which has not been heated to more than 143° F. in its manufacture."

These facts indicate the cause of failure attending the use of many malt extracts, as they account also for the great success and deserved popularity of Kepler Malt Extract. For Kepler Malt Extract is prepared on the scientific lines above laid down, by evaporation *in vacuo* at a low temperature, and thus the activity of the diastase remains entirely unimpaired, and its utility as a digestive agent is preserved. Kepler Malt Extract is manufactured from the finest barley, and barley only, and besides being rich in active diastase, contains, in addition to a considerable proportion of the albuminates of the barley, a large amount of predigested starch (dextrine and maltose) and phosphates. Kepler Malt Extract, it will thus be seen, provides a most valuable and nutritious food and a powerful agent for the digestion of farinaceous materials.

In the case of infants, while the salivary and pancreatic glands are still undeveloped, Kepler Malt Extract, added to the food, aids the digestion and assimilation of farinaceous bodies which the child would otherwise be unable to digest. Cases of rickets and scrofula are greatly benefited by its use; while in phthisis and all other wasting diseases it cannot be too highly praised. In phthisis, Kepler Malt Extract, given with some light farinaceous food at bedtime, often gives marked relief from those troublesome complications, insomnia and night sweats.

Kepler Malt Extract is of about the same consistence as honey; it is, further, very palatable and entirely free from the sickly, nauseating flavour of ordinary Malt Extracts—so much so that many patients take it with pleasure, while they turn from the others with feelings of repugnance. Yet another point—and a very important recommendation to persons of delicate digestion—is that the sugar contained in the Kepler Extract in the form of maltose does not readily lend itself to acetous fermentation; and on this account the weakest stomach may receive this Extract without the production of acidity and dyspepsia. Indeed, in cases of gastric ulcer, NIEMEYER has employed the Extract as a food with a success which was highly gratifying.

After acute disease, the administration of Kepler Malt Extract aids digestion, promotes tissue repair, and hastens convalescence; while in chronic maladies it maintains the strength, enables the patient to better withstand the disease, and prolongs life. Used as an aid to digestion, Kepler Extract should be taken with the starchy food; or, better still, may be mixed with the farinaceous food and kept at a moderate heat for a short time before the meal is taken. Mixed with water, aërated or plain, or with milk, Kepler Extract affords a very pleasing and highly nourishing beverage.

KEPLER EXTRACT OF MALT supplied to the Trade in ¾-lb. & 1½-lb. bottles at 20/ & 36/ per doz.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

FRIENDLY TALKS with the TRADE.

A PAGE FOR PHARMACISTS.

"LANOLINE."

(Syn.: Adeps Lanæ Hydrosus, P.B.; Cholesterine Fat.)

Possesses interest for the Scientific Worker.
Is an important aid to the Physician and Dermatologist.
Is of practical value to the Pharmacist.

The extraordinary unanimity of opinion, as expressed in clinical reports and pharmaceutical literature, as to the value and advantages of "Lanoline," both in the Hospital and in the Pharmacy, stamps it at once as one of the most remarkable and useful additions to modern Materia Medica.

Occupying, as it does, an interesting position between ordinary animal fat (Glyceryl series) and the more intractable petroleum jellies (Paraffin series), "Lanoline" may be said to possess the merits of both without the demerits of either; a fact which amply explains and fully justifies its increasing popularity. Its close alliance in chemical structure with the natural fats as they exist in the human epithelium is also an important point, and one that explains satisfactorily the superiority of "Lanoline" as a carrier of any medicament through the external tissues and a means to rapid absorption. Every experienced dispenser knows, and he should not hesitate to point this out to physicians—that for effective innunction, rapid incorporation, and elegance of appearance of results, "Lanoline" is the best medium by far for any of the following:—Alkaloids, Chaulmoogra, Oil, Gurjun Balsam, Vegetable Extracts, Balsams, Iodine Compounds, Oxides, Ichthyol, Sulphur, Fixed Oils, Oleates (Soaps), &c., &c.

The undoubted value of "Lanoline" in the operation of the dispensing counter is clear, and we confidently say that its more extensive use in the larger operations of the Laboratory is only a question of time and fair trial. We have used money, time, and persistent endeavour to keep in the public view the superiority of "Lanoline."

"Lanoline," it should be borne in mind, is creamy white in colour, and not sticky; does not become rancid; is nearly odourless and is neutral; is an elegant preparation thoroughly to be relied upon, and therefore well worthy of the attention of the trade.

"Lanoline," "Lanoline" modifications, and "Lanoline" Toilet preparations have already earned a high reputation, and secured a place in the Pharmacy throughout the whole civilised world. They are scientifically prepared, can be absolutely relied upon, are elegantly presented, and, what is more to the point, they will leave you with a working profit after you have handled them.

"Lanoline" preparation supplied to the trade at the following prices:—

"Lanoline," in 1-lb. and 7-lb. tin, 2/8 per lb. "Lanoline," Anhydrous, in 1-lb. tins, 3/4 per lb. "Lanoline" Ointment Base, 1-lb. tins, 2/2 per lb. "Lanoline" Ointment Base, Anhydrous, 2/10 per lb. "Lanoline," Cold Cream and "Lanoline" Pomade, 14/ per doz. "Lanoline" Toilet Soap, 4/6 and 8/ per doz. "Lanoline," Eucalyptia Soap, 8/ per doz. "Lanoline" Ichthyol Soap, 8/ per doz. "Lanoline" Pinol Soap, 8/ per doz. Toilet "Lanoline," 4/6 and 9/ per doz. "Lanoline" Shaving Cream, 8/ per doz. "Lano" Creolin, 10/ per doz. "Lanoline" Mercurial Ointment (33⅓% mercury), 4/6 per lb.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

ABOVE PRICES SUBJECT TO USUAL DISCOUNT.

Re The "Tabloids" of Compressed Medicines

supplied to the Emin Relief Expedition in 1886, and which were carried throughout the journey across Darkest Africa.

Mr. H. M. Stanley reports:—"Every drug was in 'Tabloids,' mixed with quick solvents."

Surgeon T. H. Parke reports:—"These 'Tabloids' are soluble and the doses accurate. Superior to any form of medicine that I have tried, not only for efficiency and constancy of strength—as I have repeatedly noticed—but also for extreme convenience of transport and rapid dispensing. These medicines are all contained in 'Tabloids,' which I have found extremely satisfactory, as they are very soluble, while they occupy very little space, and have never lost their strength. I have never used any therapeutic preparations at all so convenient or so reliable."

List of "Tabloids" prepared by Burroughs, Wellcome & Co.:—

Aconite Tinct., 1 min.
Aloin, 1-10 gr.
Ammon. Bromide, 5 and 10 gr.
Ammon. Chloride, 3, 5 and 10 gr.
Ammon. Chloride with Borax.
Antacid (Soda Bicarb., Potash Bicarb., Magnes. Carb., aa 2 gr., Sodii Chlorid., 3 gr.
*Anti-Constipation (Aloin, 1-5 gr., Bellad. Ext., 1-8 gr., Strych., 1-60 gr., Ipecac., 1-16 gr.)
Antifebrin, 2 gr.
Antimony Tartrate, 1-50 gr.
Antipyrin, 5 gr.
Apomorphine Mur., 1-50 gr.
Arsenious Acid, 1-100 and 1-50 gr.
Atropine Sulph., 1-100 gr.
Belladonna Tinct., 1, 5, and 15 mins.
Bismuth Subnitrate, 5 and 10 gr.
Blue Pill, 3 gr.
Borax, 5 gr.
Caffein Citrate, 2 gr.
*Calcium Sulphide, 1-10 gr.
Calomel, 1-10, ½, and 1 gr.
Camph. Co. Tinct., 5 and 15 mins.
Cannab. Ind. Tinct., 3 mins.
Capsicum Tinct., 1 min.
*Cascara Sagrada, Ext., 2 gr.
*Cascara Comp. (Cascara dry Ext. 1 gr., Euonymin, ½ gr., Nux Vomica Ext., 1-16 gr., Hyoscyamus dry Ext., 1-3 gr.)
*Cathartic Comp., U.S.P. (Ext. Coloc. Co. Pulv., 1 1-3 gr., Ext. Jalapæ Pulv., 1 gr., Hyd. Subchlor., 1 gr., Cambogiæ Pulv., ¼ gr., Menthol, 1-8 gr.
Charcoal, 5 gr.
Chloralamid, 5 gr.
Chloral Hydrate, 5 and 10 gr.
Cocaine Mur., 1 gr.
Cocaine with Potash and Borax (Voice).
Cretæ Aromat. cum Opio Pulv., 5 gr. (Aromatic Confection with Opium).
Dialysed Iron, 10 min.
Digitalis Tinct., 1 min.
Digitalin, 1-100 gr.
Diuretin-"Knoll," 5 gr.
Dover Powder, ½ and 5 gr.
Euonymin Resin, 1-8 gr.
Exalgin, 2 gr.
Ferrum Redactum, 2 gr.
Gregory Powder. (See Rhubarb Comp. Pulv.)
Guaiacum and Sulphur.
Hydrarg. cum Cretâ 1-3, ½, and 1 gr.
Hydrarg. Iod. Rub., 1-20 gr.
Hydrarg. Iod. Vir., 1-8 gr.
Hydrarg. Perchlor, 1-100 gr.
Hydrarg. Subchlor. (Calomel), 1-10, ½, and 1 gr.
*Hydrastia Comp. (Hydrastia Mur., ¼ gr., Ergotine, ⅓ gr., Cannabin Tannate, ½ gr.)
Ipecac. and Opium, 5 gr. (Dover Powder.)
Ipecac. Powder, 1-10 and 5 gr.
Iron and Arsenic Comp. (Quinine Bisulph., 1 gr., Iron Hypophosph, 2 gr., Arsenic, Strychnine Sulph., aa 1-50 gr.)
Iron and Quinine Cit., 3 gr.
*Laxative Vegetable (Res. Podoph. Ext. Hyoscy., Ext. Tarax., aa 1-4 gr., Ext. Coloc. Pulv., 1 gr., Jalapæ Pulv., Res. Leptand., aa 1-2 gr. Menthol.)
Lithia Carbonate, 2 gr.
Manganese Dioxide, 2 gr.
Morphia Sulph., 1-100, 1-20, and 1-8 gr.
Naso-pharyngeal (Sodium Chlor., Borax, Boric Acid, Benzoic Acid, Menthol, Thymol, Ol. Gaultheria, Cocaine Mur.)
Nitroglycerine, 1-100 gr. (See also Trinitrine.)
Nux Vomica Tinct., 1 and 3 min.
Opium Tinct. (Laudanum) 2, 5, and 10 mins.
Papain (Dr. Finkler & Co.) 2 gr.
Pepsin, (Fairchild).
Pepsin, Saccharated, 5 gr.
Peptonic (Pepsin, Zymine, Lactophosph. Lime, p. æq.)
Phenacetin, 5 gr.
Pilocarpin Mur., 1-20 gr.
Podophyllin Resin, 1-4 gr.
Potass. Bicarb., 5 gr.
Potass. Bromide, 5 and 10 gr.
Potass. Chlorate, 5 gr.
Potass. Chlorate with Borax.
Potass. Iodide, 5 gr.
Potass. Nit. (Sal Prunella), 5 gr.
Potass. Permanganate, 1 and 2 gr.
*Quinine, (Soluble), ½, 1, 2, 3, and 5 gr.
Reduced Iron, 2 gr.
Rhubarb, 3 gr.
*Rhubarb Comp. (Pill), 3 gr. (Rhei Pulv., 1 1-4, Aloe Soc. Pulv. 1, Saponis Pulv. 5-8, Myrrhæ Pulv. 5-8 parts, Ol. Menth. Pip.)
Rhubarb Comp. Pulv. (Gregory Powder), 5 gr.
Rhubarb and Soda, 5 gr. (Rhei 3, Sodæ Bicarb. 2, Zingiber ½, parts.)
Saccharin, ½ gr.
Salicin, 5 gr.
Salol, 5 gr.
Santonin, ½ gr.
Soda Bicarbonate, 5 gr.
Soda-Mint, or Neutralising, Tabloids.' (Soda Bicarb. 4, Ammon. Carb. 1-8, Ol. Menth. Pip. 1-8 gr.)
Soda Salicylate, 3 and 5 gr.
Strophanthus (2 minims of Tinct. in each).
Sulphur Comp. (Sulph. Præcip. 5 gr., Potass. Bitart. 1 gr.)
Tannin, 2½ gr.
Test "Tabloids" (Fehling's)
Thirst (Effervescent).
Tonic Comp. (Iron Pyrophos., 2 gr., Quinine Bisulph, 1 gr., Strychnine Sulph., 1-100 gr.)
Trinitrine (Nitro-glycerine), 1-100 and 1-50 gr.
Trinitrine and Amyl Nitrite.
Trinitrine Co. (Trinitrine, 1-100 gr., Nitrite of Amyl, 1-4 gr., Capsicum, 1-50 gr., Menthol, 1-50 gr.)
Urethane, 5 gr.
Voice. (Potash, Borax, and Cocaine).
Warburg Tincture, 30 min. in each.
Zinc Sulphate, 1 gr.
Zinc Sulpho-carbolate, 2 gr.
Zingib. Fort. Tinct., 5 min.
Zymine (Pancreatin).
Zymine Comp. "Tabloids" (Zymine, 2 gr., Bismuth Subnit., 2 gr., Powd. Ipecac. 1-10 gr.)

Those "Tabloids" marked with an asterisk are coated with a perfectly soluble coating of pure white sugar. These coated "Tabloids" WILL ONLY BE DISPENSED BY CHEMISTS WHEN SPECIALLY INDICATED BY THE PHYSICIAN.

These pure and portable "Tabloids" are made by Burroughs, Wellcome & Co. with the purest Drugs, and are supplied in convenient packages for dispensing, and are dispensed by all chemists in any quantity ordered, at reasonable prices.

ABSOLUTE PERFECTION.

"Tabloids" of Compressed Drugs, when of an unpalatable nature, are now supplied, beautifully coated with A SOLUBLE COVERING of pure white sugar, and *should only be dispensed when specially ordered by the physician.*

The following is the list of those at present supplied at the same prices as the plain "Tabloids":—

Anticonstipation
Calcium Sulphide, 1-10 gr.
Cascara Sagrada, 2 gr.
Cascara Comp.
Cathartic Comp.
Hydrastia Comp.
Laxative Vegetable
Quinine Bisulphate (Soluble), 1, 2, 3, and 5 grs.
Rhæi Comp. Pil.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

TRADE NOTICE.

W. V. WRIGHT & CO., Manufacturers of COAL TAR SOAP, "LIQUOR CARBONIS DETERGENS," beg to intimate that they have DISPOSED OF THEIR BUSINESS, together with all Trade Marks and Rights of Manufacture, as and from January 1, 1892, to

WRIGHT, LAYMAN & UMNEY,

WHOLESALE DRUGGISTS AND MANUFACTURING CHEMISTS,
48 & 50 SOUTHWARK STREET, LONDON,
Who will discharge all liabilities and receive all accounts at due date.

Southwark, London, *March* 1, 1892.

CHARGED ENTIRELY WITH NATURAL GAS.

"JOHANNIS"

PREVENTS GOUT, RHEUMATISM, AND INDIGESTION.

KING OF TABLE WATERS.

The finest tribute ever accorded to sterling merit is contained in the *Lancet* of August 8th, 1891, pages 307-8, which embodies the "*Report of the Lancet Special Commission on Natural Mineral Waters.*" "*JOHANNIS*"—*the subject of the Report—being selected from amongst the Natural Mineral Waters of the world as alone worthy of this unprecedented distinction.*

This Report, which contains a number of delicate and interesting analyses, a full description of the Spring, method of bottling, &c., at Zollhaus, Germany, together with numerous press notices, public and private testimonials, &c., will be sent to any part of the world, post free, on receipt of address.

50 Quarts, 22/-; 100 Pints, 35/-; 50 Pints, 18/6. Liberal Trade Terms.

Postal Address—JOHANNIS SPRINGS, LIMITED, 28a WHARF RD., CITY RD., LONDON, N.

Telegraphic Address—"UNCHANGING LONDON." Bankers—NATIONAL PROVINCIAL BANK OF ENGLAND.

MARION'S PHOTO SUPPLY WAREHOUSE.

MANUFACTURERS OF PHOTOGRAPHIC DRY PLATES.
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Sole Agents for VOIGTLANDER'S CELEBRATED EURYSCOPE LENSES.

22 & 23 SOHO SQUARE, LONDON, W.

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859.

PRINCIPAL OFFICE, 42 CANNON STREET, LONDON, E.C.

BRANCH OFFICES:
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Supplied only to persons connected with the Trade.

Post free to every country in the world. Single copies 4d. each.

Cheques or Postal Orders should be payable to EDWARD HALSE, and crossed MARTIN'S BANK (LIMITED).

Supplied regularly to every member of the following Societies, who have adopted THE CHEMIST AND DRUGGIST as their official organ.

The Pharmaceutical Society of Ireland.

The Pharmaceutical Association of New Zealand.

The Pharmaceutical Society of Queensland.

The Pharmaceutical Society of South Australia.

Tasmanian Pharmaceutical Society.

Otago Pharmaceutical Association.

South African Pharmaceutical Association.

The Central Association of New Zealand.

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Summary.

AMBITIOUS young pharmacists will find cheering counsel in the article on a university degree for them.

THE skirmish in the Institute of Chemistry has resulted in the election of the "house-list" nominees.

PHOSPHORUS is in an inflamed condition commercially, and the causes and prospects are commented upon editorially.

WE continue our illustrated descriptions of English pharmacies abroad—Boulogne, Biarritz, Madrid, Madeira, Monaco, Pau, and Oporto being the places visited on this occasion.

MANCHESTER chemists have discussed the Pharmacy and other Acts which affect the trade, and some useful hints are to be gathered from our report of the proceedings.

THE portraits and biographic notes of the first members of the new Pharmacy Board of Cape Colony will interest many subscribers at home as well as the chemists of South Africa.

IN our correspondence columns there are several letters dealing with the physical appearance of ext. cocæ liq., and a correspondent urges the destruction by planters of all cinchona-bark showing less than 3 per cent. of quinine sulphate.

SOME curious statements are made in the report of the bankruptcy of two young women who are said to have been the owners of a patent medicine business in Liverpool.—Mr. Delpech, the Mincing Lane bankrupt, has applied for his discharge, and is to wait ten years for it.

IN printing some reminiscences of the late Dr. Redwood and his family we take the opportunity of presenting a fine photographic reproduction of Mr. Van der Weyde's portrait of the professor. We are indebted to Dr. Redwood's family for permission to publish the School of Pharmacy resolution.

THERE is a likelihood of infringements of the Medicine-stamp Act being treated rather more summarily than hitherto. We print a warning note on the topic, and also one in regard to the use of the title "Veterinary Chemist," the use of which by chemists the Royal Veterinary College consider an infringement of the Veterinary Surgeons Act.

THE charge under the Merchandise Marks Act against the proprietor of the Pure Beef Company of forging the trade-mark "Desiccated Soup" has been again heard at the Mansion House, and the defendant is committed for trial.—Another case of dogs alleged to have been killed by dog-pills supplied by a chemist, and the relative rights of shippers and judgment creditors in a cargo consigned to a dealer who becomes bankrupt, form the subject of other legal cases reported this week.

THE dispute between Messrs. Hair and Geddes in reference to some letters alleged by the former to have been stolen by Mr. Geddes, has been temporarily suspended by the withdrawal from the prosecution by the plaintiffs in the case. Both parties write to us intimating that they are taking fresh actions, Messrs. Hair stating that they will proceed against certain other persons, and Mr. Geddes announcing that he has already served a writ on his antagonists claiming damages for false imprisonment.

Next Week.

Notices for this section must be received by the Editor not later than Wednesday. Secretaries are recommended to adopt the following style of announcement, including the hour and place of meeting.

TUESDAY, March 22.—*Royal Institution of Great Britain*, at 3 P.M. Professor Victor Horsley on "The Brain."

WEDNESDAY, March 23.—*Society of Arts*, John Street, Adelphia, London, W.C., at 8 P.M. "Manufacture and Industrial Application of Flexible Tubing," by Gilbert R. Redgrave.

THURSDAY, March 24.—*Royal Institution of Great Britain*, at 3 P.M. Dr. B. Arthur Whitelegge on "Epidemic Waves."

THURSDAY, March 24.—*Midland Counties Chemists' Association*, Colonnade Hotel, New Street, Birmingham, at 8.30 P.M. Musical, Social and Cricket.

THURSDAY, March 24.—*Brighton Junior Association of Pharmacy*, at 8.45 P.M. Musical and Social.

THURSDAY, March 24.—*Society of Arts*, John Street, Adelphi, W.C., at 4.30 P.M. Indian Section. "The Opium Question," by G. H. M. Batten.

THURSDAY, March 24.—*Chemists' Assistants' Association*, 103 Great Russell Street, W.C., at 9 P.M. Paper on "The Chemistry of the Liver," by Dr. Luff.

FRIDAY, March 25.—*Royal Institution of Great Britain*, at 9 P.M. Dr. John Evans, Treas.R.S., on "Posy Rings."

CONDUCTED BY RICHARD J. MOSS, F.C.S., F.I.C.

SPECIAL PRIZE.

THE Proprietors of THE CHEMIST AND DRUGGIST offer a Special Prize, consisting of either Mendeleeff's "Principles of Chemistry" or Fresenius's "Chemical Analysis, Qualitative and Quantitative," to be awarded to the student who obtains the largest number of marks in the Corner for Students during the first six months of the year 1892.

QUALITATIVE ANALYSIS.

A mixture of three salts will again form the subject of the exercise in qualitative analysis. It is to be submitted to a thorough systematic examination; its constituents are to be detected, and all other substances proved absent.

Students' applications for portions of the mixture will be received up to Wednesday, March 23, and the samples will be forwarded immediately.

Students' reports will be received up to Saturday, April 2. Each report should contain a concise account of the work done, and should include a list of the constituents detected; in this list accidental impurities should be distinguished from the principal constituents of the mixture.

REPORTS.

The powder issued for analysis last month consisted of 3 parts of copper sulphate, 1 part of bismuth subnitrate, and 1 part of mercuric chloride. The calculated composition of this mixture was:—

Bi	13·72
Hg	14·76
Cu	15·25
Cl	5·24
SO_4	23·10
NO_3	4·05
O	1·05
H_2O	22·83
	100·00

In addition to the above constituents, the mixture contained a notable trace of iron.

Seventy-three packets of the powder were distributed for analysis, and forty-nine reports were received, in twenty-five of which the composition of the powder was correctly stated. The failures in the detection of the several constituents were as follows:—Nitric radicle, 17; bismuth, 10; mercury, 6; chlorine, 4; copper, 0; sulphuric radicle, 0. In some of the best analyses the trace of iron was overlooked.

The simplest cases of the detection of bismuth were those in which a separate examination was made of the portion of the powder insoluble in water. The first suggestion of bismuth occurred when the hydrochloric acid solution of this portion was diluted with water, a white precipitate being produced. With this indication of bismuth, the confirmation of its presence at a later stage in the analysis was a simple matter. Ammonia in excess serves very well to separate copper from bismuth in solution, but if there is much copper, one must be careful not to overlook any precipitate that the deep blue ammoniacal solution may contain.

The failures to detect the nitric radicle arose chiefly from want of practice with small quantities. The rough kind of work that suffices to detect 20 per cent. of the nitric radicle will not do with 4 per cent.

PRIZES.

The First Prize for the best analysis has been awarded to JAMES A. HARE, care of Messrs. Bell & Riddle, Market Place, Hexham, Northumberland.

The Second Prize has been awarded to

ALEXANDER BROWN, care of Mr. G. H. Laird, 40 Queensferry Street, Edinburgh.

Marks Awarded for Analyses:—

J. A. Hare (1st prize)	100	Pepsine	89
A. Brown (2nd prize)	99	Sapientia	88
H. Bowden	98	Vigovnia	86
W. J. Brewer	97	Ozone	85
A. Thorpe	97	Atom	83
Experientia	97	L. K.	85
Nulli Secundum	97	Pyroxylin	85
Verax	97	Danwer	80
Zirconium	97	Maculatum	78
Haslar	96	Mercuric	78
Nena	96	Digitalis	73
Vinditor	96	Epip	72
W. Hood	95	L. F. M.	71
Elixir	95	Agricola	70
J. Rose	95	Victory	69
A. Blowpipe	95	Spes	68
C. E. Ashby	94	J. Bircham	65
H. F.	94	Eucalyptus	62
Moyhitt	94	Acidulous	60
Byuol	94	Calomel	55
Ornum	94	C. N. A.	50
Leo	92	Xam.	50
H. G. H.	91	Pyrrhus	40
W. Masken	90	Labor	15
Celcius	90		

TO CORRESPONDENTS.

Prizes.—The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book they select, and stating how they wish it forwarded.

Any scientific book that is published at a price not greatly exceeding half a guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as second prize.

Note.—All communications should include the names and addresses of the writers.

W. MASKEN.—Your proof of the presence of the constituents of the mixture was more than sufficient, but you omitted to prove the absence of many metals and acid radicles. It does not appear from your report that you did anything with the filtrate from the sulphuretted-hydrogen precipitate.

CELCIUS.—Although the quantity of nitrate was small, the red fumes evolved on heating very little of the powder in a tube were distinctly visible.

PEPSINE.—It was announced that the powder would consist of three salts; bismuth oxide is not a salt. Having separated the bismuth subnitrate from the other salts, you ought to have been able to detect the nitric radicle easily.

SAPIENTIA.—The only thing you observed on heating the powder was the production of a sublimate. There was a great deal more to be seen. Water of crystallisation was given off, nitrous fumes could be detected by their reddish colour and peculiar smell, and coloured oxides remained.

OZONE.—Your supposed detection of a carbonate was not supported by sufficient evidence; no doubt what you observed was the escape of a few bubbles of entangled air. A very small quantity of carbon dioxide can be identified by its reaction with lime-water.

ATOM.—The metallic mirror you obtained consisted of finely divided mercury. If you had rubbed it with a glass rod, visible globules would have been produced.

L. K.—The detection of the nitric radicle by heating the dry compound in a tube, and by the ferrous-sulphate test, required some skill. Unless you have found out, by experiment, to what extent you can rely upon such tests, there is little use in applying them to mixtures of unknown composition. It is easy to acquire the necessary skill by experimenting with

mixtures containing different quantities of nitrate; you should be able to detect 1 per cent. of the nitric radicle with certainty.

PYROXYLIN.—See remarks to L. K.

DANWER.—Schönbein's test for cyanogen, although very delicate, is by no means characteristic; bromine, iodine, ammonia, and hypochlorous and nitrous acids give a similar reaction with guaiacum and copper sulphate.

MACULATUM.—A mixture containing copper nitrate, mercuric chloride, and zinc sulphate would be soluble in water, whereas part of the powder in question was insoluble. You should have sent your full name and address with your report.

MERCURIC.—On adding silver nitrate to a nitric acid solution of the powder, silver chloride was precipitated; if you then added an excess of ammonia to dissolve the chloride, bismuth hydrate was precipitated, so that, although the silver chloride dissolved, the liquid still contained a precipitate.

DIGITALIS.—The white precipitate you obtained with ammonium sulphide consisted of sulphur. You omitted to add enough ammonia to neutralise the acid of the solution, and on adding ammonium sulphide it was decomposed with the liberation of sulphur. The metallic beads you obtained consisted of copper and bismuth, not zinc; the latter, being readily volatilised and oxidised in the blowpipe-flame on charcoal, yields an incrustation yellow while hot and white when cold.

EPIP.—The production of a white crystalline sublimate was a very conspicuous result of the heating of the powder in a dry tube. This sublimate consisted of mercuric chloride.

L. F. M.—Copper sulphide is slightly soluble in ammonium sulphide; on adding hydrochloric acid to the solution the sulphur precipitate is more or less coloured by the copper sulphide. It was this coloured sulphur that you mistook for tin sulphide.

AGRICOLA.—See remarks to "Epip." You should carefully compare the colour of borax beads containing copper with those containing chromium, noticing the difference when hot and when cold.

VICTORY.—You should try a series of experiments on the separation of a small quantity of bismuth from much copper, and *vice versâ*.

EUCALYPTUS.—You should give much more attention to the preliminary examination in the dry way. A great deal of information is usually obtained by noticing the effect of heat on the substance under varying conditions, and with a few simple reagents.

ACIDULOUS.—If lead had been present along with the sulphuric radicle, the powder would not have dissolved so readily in dilute hydrochloric acid.

CALOMEL.—Your report was very carelessly written out, and it would appear, too, that your analysis was very carelessly performed.

C. N. A.—The aqueous solution must have contained mercuric chloride, and it is impossible that you could have added silver nitrate without obtaining a precipitate. You ought to prepare a similar mixture, and repeat the work.

XAM.—Your results were correct, but you entirely omitted to report the work done.

PYRRHUS.—You were unfortunate this time. The sublimate that gave you so much trouble gave the mercuric reaction with potassium iodide.

LABOR.—You seem to think that on filtering off the precipitate produced by sulphuretted hydrogen, and passing more of the gas through the filtrate, certain sulphides would be thrown down which were not precipitated at first; this is not the case. You must not expect to be able to apply analytical methods with success until you have thoroughly mastered them by practice with mixtures of known composition.

English News.

The Smoke Problem at Northwich.

Messrs. Brunner, Mond & Co. burn their coal with a forced draught, wash the resulting gases with a water-spray, thereby depositing the sooty particles, and dissolving out the ammonia and sulphur-dioxide fumes, which are recovered under favourable conditions at a profit.

Importing Poles as Alkali-workers.

At a meeting of the Prescot Board of Guardians on March 10, a letter was read written on behalf of a number of alkali-workers, complaining that a large number of Poles (who had been imported lately) had been given employment at the Widnes Chemical Works, which form part of the Alkali Union, to the detriment of English workmen, who had thus been forced to apply for assistance from the poor-rates, and to work at the relief works started by the local authorities. There are now 622 persons in Prescot Workhouse, against 573 last year, and 3,429 are obtaining outdoor relief, against 3,147 at the corresponding date of 1891. A long discussion ensued, the result being that the guardians resolved to take no action in the matter, the question being one between the men and the Alkali Company, and outside the province of the Board.

Leicester and Leicestershire Chemists' Assistants' Association.

The annual meeting of the above Association was held at the old Town Hall on March 3. Mr. Butler presided. The annual report was presented and adopted. The desirability of continuing the Association on the present educational lines was discussed, and it was decided that the Association should be carried on as in the past. Mr. Woolley suggested that a committee should be formed to look after trade interests in the town. It was resolved that the thanks of the Association should be forwarded to Mr. Richardson for his services in the past, and regret was expressed that he should sever his connection with the Association. The following were elected on the Council for the ensuing year:—Messrs. T. H. Lloyd, Butler, Woolley, Rowe, Burford, Ough, Ward, Daniells, and Wathes. Mr. T. Howard Lloyd was subsequently elected President in place of Mr. Richardson, resigned; Mr. Woolley and Mr. Butler, Vice-Presidents; Mr. Rowe re-elected Treasurer; and Mr. George Ward, Secretary.

Supervising the Drug Supplies.

The sum of 868*l.* 2*s.* 4*d.* has been expended in drugs at the Royal Hospital for Diseases of the Chest, in the City Road, during the past year, and this amount is thought to be excessive, for at the annual Court of Governors, held in the board-room of the institution on Monday, under the presidency of the Lord Mayor, the council reported that the question of the apparent high cost of the drugs was receiving the attention of the Drug Committee, and that in future a more rigorous supervision would be given to this department, which, it was hoped, coupled with more advantageous terms for the supply of the principal drugs, would effect a considerable saving.

At the meeting of the managers of the Central London School District, held at the offices of the City of London Union, Bartholomew Close, E.C., on Monday, Mr. Cooksey called attention to the largely increasing amount expended each year in drugs. It was decided that in future the supply of drugs should be obtained by public contract, instead of, as heretofore, through one particular firm of druggists at their list-prices.

Is a Dentist a Luxury?

When the question of the appointment of a dentist to attend to the teeth of the pauper children in Hanwell Schools came before the Board of Management at their meeting on Monday, one member gave it as his opinion that the attention of a dentist was a luxury which the ratepayers should not be called upon to pay for in the maintenance of the inmates of the school. One of the committees recommended the appointment of such an officer at a salary of 80*l.*, and it was pointed out that hitherto the children had had their teeth attended to by the resident medical officer. According to one member, no less than 766 children required the dentist's ministrations, the number of unsound teeth possessed by the children being 3,357, of which over 1,000 required filling. The recommendation of the committee was agreed to.

Alleged Fraud with Essential Oils.

At the Central Criminal Court, on Monday, March 14, Thomas Hillier, William Hodges, and Frederick Simpson were indicted for conspiring to defraud Job Allen and John Allen and other persons, and also for obtaining 650*l.* from them by means of false pretences. Mr. C. Mathews and Mr. Eldridge prosecuted; Mr. Fulton defended Hillier; Mr. Geoghegan defended Hodges; and Mr. C. F. Gill defended Simpson. Mr. Job Allen deposed to his having been taken into partnership by two of the prisoners, and having paid 200*l.* as his share. Subsequently he was induced by false invoices to pay large sums of money for "Mitcham" oil of lavender and "English" oil of peppermint. The articles he purchased proved to be worth only 3*s.* 6*d.* per lb., while the invoice represented them as worth 38*s.* per lb. Before Mr. Job Allen's evidence was concluded,

Mr. Fulton said he could not resist a verdict of guilty of conspiracy against his client.

Mr. Geoghegan made a similar admission on behalf of Hodges, and Mr. Gill on behalf of Simpson.

The prisoners were accordingly found guilty of conspiracy, and not guilty of obtaining money by means of false pretences, and sentence was postponed at the request of counsel for the defence till next Sessions, it being intimated that restitution would probably be made during the interval.

Plymouth Officials.

Dr. C. E. Bean has been appointed analyst, to succeed Dr. Oxland, resigned: whilst the coronership vacant by death has been filled by Mr. R. B. Johns, solicitor. The position of inspector of weights and measures has been given to Mr. Savers, who, having passed the required examination, commences duty on Monday next.

Sheffield Chemist and Technical Education.

Technical education is a popular subject at Sheffield at present. Even people who know little about it, and privately begrudge the money that is being expended upon it, go with the stream. At the last meeting of the Town Council a vote for 7,465*l.* was asked for to be divided amongst various educational institutions in the town in promotion of technical instruction. Mr. J. W. Furness moved that the sum be reduced by 2,334*l.*, the amount to be drawn from the rates, leaving only the Government grant. He said he knew he was moving an unpopular motion, but, in the face of increasing rates and declining trade, he felt it his duty to ask the Council to agree to the smaller grant. Mr. J. R. Lockwood seconded the motion. Both gentlemen were severely taunted with lack of interest in technical education, and when the vote was taken they only supported the motion. Mr. J. P. Dobb could not find it in his heart to vote against his fellow-tradesmen, and he remained neutral.

Brighton Junior Association of Pharmacy.

At a meeting of this Association, held on March 9, there was first a paper on "Trade Unions and Combinations," by Mr. S. Smith, who warmly supported the anti-capitalistic arguments of Dames & Co. There was an interesting academic discussion of the subject, in the course of which Mr. Yates, the honorary secretary, sought to tag on the moral that the members should support their own trade union at 17 Bloomsbury Square. Then followed a lively hour of "Sharp Practice." Mr. Snow discoursed upon "Are Males Degenerating?" Mr. Crowhurst, "Does 'Bunkum' Pay?" (the general opinion being that chemists and patent-medicine makers practise it largely, but that in the long run it does not pay). Mr. Emms followed with "What do you think of our Army?" Mr. Hulme on "Which is the best School for Study for the Minor?" Mr. Blamey on "Cremation"; Mr. Yates on "*Post-mortem* Examinations"; Mr. Coleman on "Sunday Opening of Museums," &c.

Medicine per Bottle.

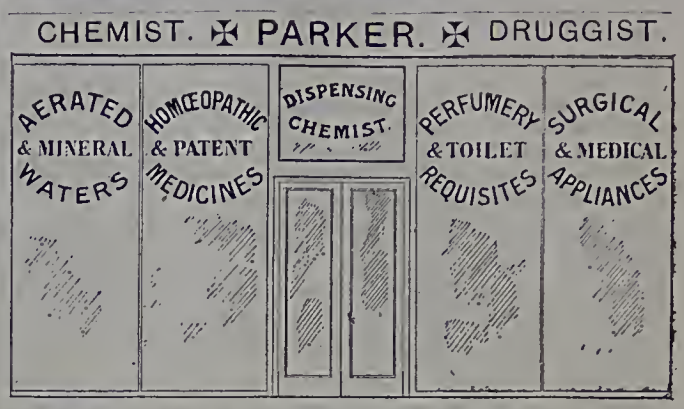
At the meeting of the Brighton Board of Guardians last week, a motion was brought forward to present a gratuity to the Poor-law medical officers in recognition of their extra services during the recent epidemic. Mrs. Haycraft (a member of the Board) asked what would be a fair price for a bottle of medicine? (Laughter.) Dr. Hussey: I think that information could be better obtained from Mr. Gwatkin. (Renewed laughter.) Mr. Gwatkin (local Hon. Secretary of the Pharmaceutical Society): The price of medicine varies very considerably, but I should say that 6*d* per bottle would be a very low estimate. (Laughter.) Mrs. Haycraft: I have always understood that vendors of medicine made enormous profits—in fact, that a two-shilling bottle of medicine cost 2*d.* (Laughter.) But if 6*d.*, she added, was a fair estimate, and those gentlemen had to supply sixty bottles a day, then she must admit that her views as to the justice of the proposition were much changed. The resolution to present the gratuity was carried.

Buying Laudanum.

Mr. Braxton Hicks held an inquest on March 11, at Wandsworth, respecting the death of Jane Goodwin, a widow, 43, who died, as the evidence showed, from an overdose of opium. Her daughter said the deceased, who was of independent means, was accustomed to take opium, and had done so for the past fifteen years. She used to send witness for it to different chemists, and used to get an ounce for 6*d.* The bottles were labelled "Poison." The doctor said a chemist was allowed to sell any amount as long as he labelled it "Poison."

"Pearson's Weekly"

offered a set of enamelled letters (worth 10*l* to 15*l*) to the chemist who sent in the neatest design in the arrangement of three given styles of letters on the shop front. The gentleman who has been successful is Mr. S. Parker, 4 Winterdyne Terrace Morcambe. This is his design:—



We are indebted to Mr. C. Arthur Pearson, editor of our contemporary, for this illustration.

Liquid or Powder Carbolic?

At the meeting of the St. Luke's (Middlesex) Vestry on Tuesday, Mr. Churchwarden Griffin presiding, the sanitary committee (by Dr. Clifft) brought up a report on the tenders received for the supply of disinfectants for the parish for the ensuing twelve months. There were four tenders submitted to the Board, viz.:—Messrs Adams, Webster & Co., Manor Place, Hackney Road, who offered commercial liquid carbolic acid at 1*s.* 1*d.* per gallon, carbolic powder at 3*s.* 6*d.* per cwt., and carbolic powder in 1-lb. packets 6*s.* per gross. The prices of Adcock, Easton & Co., of Charteris Works, Finsbury Park, N., were respectively 11*d.*, 4*s.*, and 6*s.* 6*d.*; those of the Chloralum Company, of Muscovy Court, Tower Hill, E.C., 1*s.* 6*d*, 8*s.* 9*d.*, and 13*s* 6*d.* respectively; and those of Duncan, Fuller & Co., of 150 Minories, E.C., 1*s.* 2*d.*, 7*s.*, and 14*s.* respectively. The committee recommended the acceptance of the tender of Adcock, Easton & Co., subject to inquiries by the chairman and the clerk; but Dr. Clifft now moved that the tender of Messrs. Duncan, Fuller & Co. be accepted. The prices were a little higher but he would suggest that more of the acid and less of the powder be used. The powder contained a very small percentage of acid; indeed, it only tended to block up the sewers. (Laughter.) Mr. Easterling: Is that true? Mr. Sharman: Yes; it is only wasting money to buy the powder. Dr. Clifft said he would urge the Vestry to use the acid in preference to the powder wherever possible. Mr. Geo. Eade (pharmaceutical chemist, Goswell Road) seconded the motion, and said he was to an extent pleased that the recommendation had been changed, because, with some little knowledge of the business, he could not understand how any firm could supply the commercial liquid carbolic acid at 11*d.* per gallon. Even 1*s.* 2*d.* was a very low price. Mr. Howes: What about the carbolic powder? They say it is made of brick bats and deal-ends. (Laughter.) Mr. Eade: 7*s.* per cwt. for the carbolic-acid powder is a very good price, more especially if it is true that it is composed of brick-bats and deal-ends. (Laughter.) But I hope that whatever we get will be submitted to analysis. Mr. Howes: Stop a bit. You made inquiries about Adcock, Easton & Co. What inquiries have been made about Duncan, Fuller & Co.? I don't say there is anything wrong with either of them; but let's be fair all round. Dr. Clifft: No inquiries have been made respecting Duncan, Fuller & Co. Mr. Howes: Then I shall move as an amendment that the prices of Duncan's be accepted subject to the inquiries being satisfactory. Mr. Ruball said this would cause further delay, and the sanitary authorities wanted the stuff. The Surveyor

remarked that the present contract did not expire until March 25. Mr. Howes: And if it has expired, we can purchase for immediate necessities. I shall press my amendment that the tender of Duncan, Faller & Co. be only accepted subject to inquiries being satisfactory, because it is quite right that we should make inquiries about the one as the other. Mr. Eade seconded. Dr. Clifft accepted the amendment, and the provisional acceptance of Duncan, Faller & Co.'s tender was consequently adopted.

The By-laws.

A meeting of the members of the Sheffield Pharmaceutical and Chemical Society was held on Wednesday night, at their rooms, for the special purpose of hearing an address by Mr. W. Ward, F.C.S., on the new by-laws of the national Society. Mr. Morrison (president) occupied the chair, and at the outset he referred to the death of Professor Redwood. He remarked that, wherever pharmacists were gathered, there would be centred within them a certain amount of reverence for the professor who participated in the cares, worries, and fight for pharmaceutical freedom and helped to bring pharmacy up to a higher level than it formerly attained. He was sure they all regretted very much the recent death of Professor Redwood. Mr. Ward then delivered his address. After explaining the most important of the alterations in the by-laws, he made an appeal to those in the trade who were outside the Society to join it. At the present time there were in Great Britain 14,000 chemists and pharmacists, but of that number only 4,000 belonged to the Society. He had no doubt they would have carried their last Bill if the Society had been stronger. Mr. Learoyd thought that associates should have voting power, and Mr. Newsholme (a member of the Council) said the Council were in favour of it but the constitution of the Society prevented it. Mr. Turner considered the abolition of the entrance fee was a mistake, but Mr. Ward mentioned that it had had the effect of causing an increase of members in this district.

Sales of Laudanum "Ought to be Registered."

An old woman, named Mary Smith, died suddenly at Barnstaple at the age of 82. An inquest was held, at which it was elicited that the deceased had been an inveterate opium-taker for the past thirty years. She spent her whole weekly allowance in laudanum, and during the two last days of her life she had taken five doses, for which she paid 10*d*. The medical evidence did not attribute death to opium poisoning, but to natural causes, probably failure of the heart's action. Mr. Prizeman, assistant to Mr. Goss, chemist, mentioned that deceased used to be supplied with five-pennyworth of laudanum every day, including Sundays. Laudanum not being one of the registered poisons, a person buying it would not be required to sign the book. All the chemist had to do was to label it "Poison," and that had always been done. The Coroner, in summing up, said laudanum was one of those poisons the sale of which ought to be registered. It was a deadly poison. The jury returned a verdict of death from natural causes, and added a rider concurring with the Coroner's observation, that sales of laudanum ought to be registered.

Look out for the Chlorodyne Customer!

A lady has been visiting a number of the chemists in the neighbourhood of the Crystal Palace, and has annexed five 2*s*. 9*d*. bottles of chlorodyne in four visits we have heard of. In each case she has asked the chemist to make up a bottle of medicine for her little boy, whose cough or other complaint she describes. Then she has asked that the mixture shall be sent to a respectable address which she gives, with, perhaps, a pound of linseed-meal, or some other article with the bill—and the messenger is to wait for the money. Then she remembers that she wants a bottle of chlorodyne, which she will take with her. It may be added to the bill. The chemist, pleased with the confidence reposed in his prescribing talents, parts with the bottle of chlorodyne—in one case with two bottles—and his cough-mixture and linseed-meal come back to him later in the day, with the report that the lady is not known at the address given.

Fond of Extra Cream.

At the Cardiff Police Court, on Tuesday, Mary Ann M'Taggart (43) was charged before Stipendiary T. W. Lewis with having stolen a box of soap, a pot of cold cream, a bottle of smelling-salts, and a tablet of soap, the whole of the value of 4*s*., and the property of Mr. David Harries, chemist, Queen Street. Detective Stephens, who arrested prisoner for loitering and behaving in a suspicious manner, said the articles were found upon her. Inquiries were instituted, and their owner was discovered. Mr. Harries could not identify the box of Vinolia soap. Prisoner said she bought this for 6*d*.; but he had ascertained that its value was 2*s*. 6*d*. Defendant was sent to prison for twenty-one days, with hard labour.

Contracts Accepted.

The St. Pancras Board of Guardians have accepted the tender of Messrs. Corbyn, Stacey & Co., 300 High Holborn, for the supply to the Union of drugs for twelve months, and that of Messrs S. Maw, Son & Thompson, of Aldersgate Street, for the supply of medical and surgical appliances for a similar period.

The Wrong Bottle.

Dr. Macdonald, the North London coroner, held an inquest at Hackney on March 10, concerning the death of John Alderman, a commercial traveller, lately residing at 102 Cuckfield Street, Lower Clapton. Mr. Alderman had been ill for some time, and was being nursed by Mrs. Brown, a relative. Dr. Wheeler Brown, who was attending him, had sent a mixture to take and a lotion to use, both being in bottles exactly similar in size and colour. The only difference was that the lotion bore a label with the word "Poison" in red ink, while the label on the mixture was in black ink. Mrs. Brown, who said her sight was not good, gave Mr. Alderman what she thought was a dose of the medicine, but which turned out to be a draught from the lotion-bottle. There was carbolic acid in the lotion, and Dr. Birch said death was due to carbolic-acid poisoning. The Coroner said Mr. Brown (the doctor who had supplied the medicine) was specially asked to attend, but he had not thought it worth while to do so. He had sent a letter in which he said he had warned Mrs. Brown to be careful that she did not give the deceased the lotion by mistake. He also warned her that the bottles would be of the same size.

A Juror: I think it is gross negligence on the doctor's part.

Eventually the jury returned a verdict of death by misadventure. They added that the sending out of carbolic acid and medicine in bottles of the same shape, size, and colour was highly reprehensible, and they thought that Dr. Wheeler Brown had not paid sufficient respect to the Court in not attending, and considered he was deserving of censure.

The Coroner remarked that the doctor had not paid respect even to his own character.

Carbolic-acid Poisoning.

On Saturday last Mr. Wyatt held an inquest at Lambeth concerning the death of Mr. William F. Black, a civil engineer, lately residing at South Lambeth, who committed suicide by swallowing carbolic acid. The evidence went to show that the deceased had become mentally deranged in consequence of Stock Exchange losses, and had committed suicide while in that state.

A Middlewich girl of 13, Margaret Littler, was scolded by her stepmother and swallowed some carbolic acid. Fortunately she recovered, and was able to be brought before the magistrates last Friday.—Maria Billingham (59), a Birmingham woman separated from her husband, took three pennyworth of carbolic acid last Saturday, and died in the general hospital.

A Dispensing Doctor's Fees.

In the Westminster County Court on March 11, the action of Smith *v.* Webster, which was remitted from the High Court, was tried by his Honour Judge Bayley. The plaintiff, as executor of the late Dr. Day, consulting surgeon of the Hospital for Women and Children, sought to recover the sum of 50*l*. 1*s*. for professional services rendered to a Miss Finch, at the instigation of the defendant, who resides at Victoria Street, Westminster. Both sides were represented by counsel, and the plaintiff's case was that the late doctor was employed to attend Miss Finch for a disease peculiar to women, and which required more than ordinary skilful treatment. In

such cases the doctor regarded himself as a specialist, and to people who were able to pay he was in the habit of charging one guinea a visit. The present claim was for a number of visits at one guinea each. The late doctor's books were put in to show that he was in the habit of charging a guinea a visit for his services, but it was also shown that his fees went down to as low as 1*s.* 6*d.* a visit.

For the defence it was contended that Dr. Day was a dispensing doctor residing at Clapham, that he supplied his own medicines, and was in no way a specialist, neither was he engaged as such. The defendant said when he engaged him there was a distinct understanding that the charges should be 5*s.* a visit, and the sum of 13*l.* 5*s.* had been paid into court for the number of visits alleged to have been paid.

Medical evidence was called to show that the sum of 5*s.* a visit would be a fair charge for a practitioner such as Dr. Day to make. A number of witnesses having been called, the learned Judge said he was satisfied that the amount paid into court was quite sufficient. Judgment for the defendant, with costs.

Horehound and Cayenne Pepper.

Charles Sheppard, an Ipswich quay-labourer, caught a cold last week, and on Saturday night made himself a draught. He boiled some horehound in a saucepan with half a teaspoonful of cayenne pepper. The horehound was bought six weeks ago from Mrs. Woolard's, in Cavendish Street. He felt ill after taking some of it then, and the same on Saturday last—indeed, on Sunday very serious symptoms set in, and Mr. William Francis Fryer, surgeon, was called. He went at once, and found that the deceased was in bed; life was quite extinct, but the body was warm. At the inquest he stated that he believed a specimen produced to be genuine horehound, and thought, if taken in certain quantities, it was quite harmless. The horehound in itself would not cause death, but an overdose of cayenne pepper would produce inflammation of the bowels and stomach. He could not say what was the cause nor account for the suddenness of death. The pepper (produced) contained some foreign matter, which he was told by deceased's wife was saltpetre. The mixture might not have produced poison, but he thought the cayenne pepper wrought the mischief. After some further evidence, the inquiry was adjourned.

Said it was Nice, but Died.

Florence Ella Andrews, between three and four years of age, daughter of a fisherman at Cawsand, was taxed by her mother last Thursday night with emptying a bottle of lotion the mother had been using externally for neuralgia. The child, after some persuasion, admitted drinking the contents (about an ounce), and said it was nice. Dr. Leslie Watt, of Millbrook, was at once called, and, arriving about half-past eleven, found the child past recovery. She died at four o'clock. The jury returned a verdict of accidental death. There was morphia in the lotion.

Irish News.

Registered Druggists.

At an examination for the licence to act as a registered druggist, held at Queen's College, Belfast, on March 8, the following passed:—R. Adamson, J. Burnside, D. Chapman, W. J. Moore, S. Neill, H. H. Quigley, J. Sanderson, and Eliza Anne Thompson.

A Pharmaceutical Preliminary Examination

will be held on April 4, and the examinations for the Pharmaceutical Licence on April 6, 7, and 8. Both of the examinations are held in Dublin only, and applications should be received by the Registrar, at 67 Lower Mount Street, not later than March 23 for the Pharmaceutical Licence, and March 28 for the Preliminary examination.

Fire.

On Wednesday morning a fire broke out in the establishment of Whitby & Co., pharmaceutical chemists, South Great George's Street, Dublin, but was extinguished before any considerable damage had been done. The fire is supposed to have been caused by the dropping of lighted matches on some paper in a cellar.

Courses of Practical Chemistry and Pharmacy

will commence in Trinity College, Dublin, on April 1 next, under the guidance of Professor Reynolds, M.D., and Professor W. G. Smith, M.D., respectively.

Sheriff's Sale of a Pharmacy.

At Newbridge, County Kildare, a well-equipped pharmacy has just been sold by sheriff's auction. The major portion of the stock, bottles, &c., was purchased for Messrs. Hunt & Co., Dublin, wholesale druggists. The business was established some three years ago by Mr. Rice, pharmaceutical chemist.

Contracts Open.—Tenders Wanted.

A large number of contracts for drugs and medical appliances are at present open to competition, and in some cases the supplying of oils, chandlery, paints, &c., is included. The largest and most valuable contracts are those for the Board of Public Works, General Prisons Board, North Dublin Union, and Cork Union. In all, twenty tenders are required, including at least 200 infirmaries, workhouses, dispensaries, gaols, &c., throughout Ireland. The following is the list and date of consideration:—Bantry Union, March 22; Claremorris Union, March 23; Coleraine Union, March 19; Cork Union, March 21; Edenderry Union, March 19; Kilkeel Union, March 21; Limavody Union, March 21; Londonderry Union, March 19; Manorhamilton Union, March 24; Middleton Union, March 26; North Dublin Union, March 30; Portumna Union, March 19; Roscommon Union, March 19; Rathdown Union, March 23; Strabane Union, March 22; Skibbereen Union, March 19; Tobercurry Union, March 21; Youghal Union, March 24; Board of Public Works in Ireland, March 23; General Prisons Board of Ireland, March 19.

The Calendar of the Pharmaceutical Society of Ireland,

corrected up to January 22, 1892, has just been issued, and contains copies of the registries of "chemists and druggists" and "registered druggists" under the Pharmacy Act (Ireland) Amendment Act, 1890, as well as a list of "pharmaceutical chemists" who have been registered. Much valuable information may be gleaned from the published regulations for carrying out the provisions of the Acts and the conduct of the various examinations. The papers as set for these examinations during the year 1891 are also given. Information respecting the recognition of the Irish pharmaceutical chemist's licence in foreign countries is also included.

Supply of Drugs to Unions.

Messrs. Boilean & Boyd, Dublin, have been appointed drug and medicine contractors to the Dungarvan Union.

The Local Government Board, replying last week to a communication addressed to them by the Mullingar Board of Guardians on the subject of the supply of drugs not included in the printed schedule, stated that the list of authorised medicines had been compiled from the latest edition of the British Pharmacopœia, and were of opinion that if it were found necessary to apply for drugs not mentioned in the list a distinct requisition should be furnished.

A Varied Diet.

James Gains, Strangford, county Down, varied his diet last week by breakfasting on vermin-paste, iodine, and paraffin oil. Later on he thought he would try an emetic, and, as a last resort, a doctor. Temporary insanity was the Coroner's verdict.

Scotch News.

Preparing for the Conference.

The arrangements for the Conference meeting at Edinburgh in August are now taking shape. A meeting of chemists in the city and surrounding centres was held some

time ago, and a large representative reception committee and a small consulting committee were appointed. A circular has now been issued by the local secretary, Mr. Peter Boa, 119 George Street, calling attention to the meeting and soliciting subscriptions to the guarantee fund. Over 100*l.* has already been subscribed, and, from the interest which is being taken in the forthcoming meeting, a most successful gathering may be anticipated. The following are the local office-bearers:—Mr. James R. Young, chairman; Mr. J. Laidlaw Ewing, vice-chairman; Mr. Thomas Thompson, treasurer, 35 George Street; Mr. Peter Boa, secretary; and Mr. C. F. Henry, assistant-secretary.

In accordance with the circular, an influentially-attended meeting of chemists was held on Wednesday forenoon at 36 York Place, over which Mr. James R. Young presided. The treasurer, at the request of the chairman, gave a report as to the guarantee fund of 200*l.* which was required to meet the local expenses, from which it appeared to the satisfaction of the meeting that the amount promised was satisfactory. A large committee was then appointed, and, on the suggestion of Mr. Ewing, was divided into four sub-committees, to deal with finance, hall arrangements, excursions, and reception, respectively. The chairman, in a concluding speech, said that the many conferences held in Edinburgh had always been successful. They had a fine city to show to their friends, and he trusted they would do all they could to give them a hearty welcome.

With Goschen's Sixpence.

Mr. J. Braik Mason, chemist, Dundee, has just concluded his first course of lectures at Errol on "Agriculture." Some time ago Mr. Mason was appointed lecturer on this subject by the County Council, the object being to instruct the workmen of the farming districts in the technical principles of their calling. The venture has been a complete success.

Progress of Disinfection.

At a meeting of the Dundee Town Council last week it was resolved that the sanitary officers should be authorised to disinfect houses wherein consumptive patients have died, and to extend the disinfection to the clothing and bedding in such houses. The permission of the householders must, however, be obtained, but the resolution is an eloquent tribute to the advance of the doctrines of sanitation.

An Attractive Shop-window.

A simple, yet attractive, shop-window decoration may be seen in the Maxwellton district of Dundee. The bottom of the window has been laid with blue seidlitz paper, and the name of a firm of well-known soap manufacturers is spelled out with their own productions. This is backed by an arrangement of the proprietor's preparations. The whole effect is striking and novel, and succeeds in drawing the attention of numerous wayfarers who would otherwise pass the shop with barely a glance.

Dundee Dance.

Last week's meeting of the Dundee Assistants' Association took the form of a very successful *conversazione*, which was held in Young's Rooms. Mr. W. P. Henderson, who presided, gave some good counsel in the matter of preparing for the examinations. He instanced several Dundee chemists' assistants who had risen by dint of application. A musical treat of a high-class order was thereafter presented, the songs by Mr. Robert Young, the Vice-President, being received with enthusiasm, and a violin selection by a young lady pharmacist was much enjoyed. Dancing was commenced about eleven, and kept up almost until the factory-whistles began to blow.

Druggist and Midwife.

Mrs. Reid, a midwife, is suing Edward Coyle, druggist and licentiate of the Faculty of Physicians and Surgeons, of Dumbarton Road, Partick, Glasgow, and claims 250*l.* damages for alleged slander. Last October she was attending a Mrs. Moore, of Whiteinch, and administered to her a dose of ergot of rye. Mrs. Moore died, and it is alleged that Mr. Coyle had maliciously stated to Mr. Moore that she (Mrs. Reid) had poisoned his wife, and had advised him to give information to the police. She accounts for the alleged malice by saying that previously she had been asked to prescribe for a sick child which the defendant had been attending. The defendant says he has no personal knowledge of Mrs. Reid, that he did not advise Mr. Moore to give information to the police, and that what he said was privileged. Further, he says that ergot of rye should only be administered under medical direction; and, in reply to the statement that a post-mortem examination had shown that Mrs. Moore died from natural causes, he says that, having survived the dose six days, all direct traces of the drug might have disappeared.

More Dundee Changes.

Mr. T. S. Peebles has the pleasant prospect of a forced removal from his branch premises in Victoria Road. An unknown man, a chemist, has successfully negotiated with his landlord. Mr. James Anderson is to open a branch at Monifieth, a rising suburban village on the Tay, which will gather more people round it when the military camp at Barry is in full swing. A Dr. Lamond has just started practice in Dundee, and three others will be in the field by-and-by.

The Evening Meeting in Edinburgh

is postponed to March 30, when papers on "Kola," by Mr. Peter Boa, "Liquor Strychninæ," by Mr. W. Duncan, and "Acid Sulphate of Strychnine" and "Arseniate of Sodium," by Mr. George Coull, B.Sc., will be read.

Not "Our Home."

In January last we commented on some most dangerous prescriptions which had been printed in a paper called *Home*, a cutting from which had been sent to us by an Edinburgh correspondent. The editor of *Our Home*, published at Edinburgh, says this circumstance has induced some readers to believe that his journal was referred to, and he very politely asks us to clear him of the charge, which we have much pleasure in doing.

French Pharmaceutical News.

(From our Paris Correspondent.)

HYDROPHOBIA IN PARIS.—Referring to the alarming prevalence of hydrophobia in Paris, M. Schlumberger, of Mulhouse, proposes the compulsory vaccination by the Pasteur system of all the dogs of the metropolis, every unvaccinated member of the canine race to be pitilessly destroyed. One of the leading assistants of the great bacteriologist has stated, however, that this would be impracticable in the present state of science and especially on account of the great expense likely to be entailed by the several months' imprisonment in the laboratory of the canine patients.

A CONTROL ON PATENT MEDICINES.—The Pharmacists Syndicate of the Departement of the Seine-et-Oise has named a delegation with a view of securing the suppression of these specialities. It proposes to endeavour to have the following propositions made law:—"The pharmacist, being essentially responsible, shall deliver no medicine (except natural mineral waters) without his own label. The medicaments to be sold under the name inscribed in the Codex or under the number of the entry in the prescription-book. . . . All new remedies to be sold under the name adopted by the inventor or the Academy of Medicine while awaiting their incorporation in the Codex."

FABRICATED WINE AND LIQUEURS.—M. Girard, the head of the Paris Municipal Laboratory, discovered at M. Pajard's wineshop in the Rue de Sèvres, an illegal still for making wine and liqueurs. The wineshop-keeper, compelled to confess his guilt, declared that his liqueurs were at least of the highest quality. He asserted that he had studied under a certain chemist in the Boulevard de Strasbourg. "This *savant* is well known to my *confrères*," said he. "He prepares and sells the necessary articles for making various wines and liqueurs and also supplies a pamphlet on the method of preparation." M. Pajard's utilisation of his scientific attainments has obtained for him a summons on fourteen charges, corresponding to the number of liquid preparations made by him.

THE MICROBE MOCKS AT MODERN MEDICINE.—At the last meeting of the Academy of Medicine M. Albert Robin, of the Hôpital de la Pitié, criticised the undue popularity of internal antiseptics. Clinical practice, said he, does not always confirm the laboratory experiment by which their popularity was gained. A syphilitic female patient was recently successfully treated by him for influenza Freed from the latter malady, he administered bichloride of mercury in increasing doses to remove the syphilitic symptoms. In thirty-five days the total of the doses was 1 gr., enough to saturate the system with this microbe-destroying substance. Yet she died, four days after, of an infectious broncho-pneumonia of a hypertoxic kind. Fragments of her lungs revealed swarms of microbes of four diseases in full vitality and virulence. The mercury, said he, had weakened the organism without killing the microbe. When laboratory experiments are made with antiseptics on microbes, the third factor—the living body with its chemical and morphologic reactions—should not be forgotten.

PHARMACISTS AND BENEFIT SOCIETIES.—The benefit societies of Marseilles obtained some time ago for their members a special tariff for medicaments obtained at certain pharmacies. This scheme not giving satisfaction was changed for a system of yearly subscription by which the society paid the pharmacist a fixed sum per head and per annum for the number of its members and their families who availed themselves of his offices. This system occasioned endless disputes, the Societies endeavouring in the interest of their members to reduce the price below all reasonable limits. They finally decided to start a co-operative pharmacy. Thirty-three societies, representing a total of 2,215 members, expended the sum of about 450*l.* for the initial expenses. It is to be kept up by an annual payment of 6*s.* each member per year. Other societies joined and they now number 72, representing 7,215 members, who with their families probably give the pharmacy a connection of about 28,800 persons. Such is the account given by the mutual co-operative committee of Marseilles. The knights of the pestle of that southern city are, however, men of resource. There is a legend that some years ago a great spirit of competition rose between them. Finally one put up a large sign over his shop, "The first pharmacist of Marseilles." Another, having a business a few doors off, not to be outdone, soon had a big board up reading, "The first pharmacist of France." The third member of the craft in the same road was much discountenanced by this, until a brilliant idea struck him. He erected a still larger board bearing the words, "The first pharmacist of the street."

Foreign and Colonial News.

POISONOUS BEESWAX.—The wax of a species of bee common in Patagonia, Terra del Fuego, and other parts of southern South America, and the adjacent islands, is of a dark blue colour, and is said by the *Oil, Paint, and Drug Reporter* to be more poisonous than arsenic.

PATENTS AT THE CHICAGO EXHIBITION.—The United States Senate has passed a special Bill enacting that no foreign citizen shall be held liable for infringing any patent, trade-mark, or label, registered in the United States, if the act is performed in connection with the exposition of any article or thing at the Chicago World's Fair.

NEW USES FOR CHICLE GUM.—Gum chicle has attracted more than usual attention in the American drug trade recently. Its use is not confined to chewing-gum manufacturers, as is generally believed; for it is now being used quite extensively as an insulator, replacing indiarubber, and can also be used advantageously as a waterproof varnish.

THE CANADIAN FAILURE.—Messrs. Kenneth Campbell & Co., wholesale and retail druggists, of Montreal, have resumed business again, the wholesale in their former warehouse, Craig Street, and retail at Medical Hall, Colonial House, and the Windsor branch. Their statement of affairs shows ordinary liabilities, $45,450; customers' paper, $6,000; privilege debts, $9,400; and assets, $64,099; leaving a nominal surplus of $3,195 over all liabilities.

A FATAL MIXTURE.—On February 25, Apotheker G. Kordek, in Windischgraetz (Austria), tried to rub together chlorate of potash and sulphur. The experiment cost the poor fellow his life. Both his hands were blown off, his eyes destroyed, and his face and body frightfully disfigured, pieces of the mortar entering his legs and abdomen. He lingered for eleven hours in fearful agony, perfectly conscious.

FATAL EXPLOSION IN BERLIN.—Last week, Mr. Jacob Roeder, of Berlin, the proprietor of a large looking-glass manufactory, met with a horrible death. Mr. Roeder possessed a recipe for an excellent varnish for coating the backs of mirrors, and he guarded the secret of this preparation with such care that he would never allow anyone to assist him in making the stuff. On March 5 Mr. Roeder locked himself in his laboratory to make a fresh batch. A coal fire had been kindled in the laboratory stove. There were also in the same apartment two gasometers, from which the factory was supplied with gas. An escape from one of these caused an explosion, which ignited the various resins and other inflammable materials stored in the laboratory, and caused Mr. Roeder's death by suffocation.

PHARMACEUTICAL CO-OPERATIVE STORES.—A circular, signed by some of the most prominent physicians in Berlin, has been sent to all pharmacists and members of the medical profession of that city asking their support for the proposed establishment of a kind of co-operative association, similar to those which already exist in the German capital for the use of officers, Government officials, &c. Among the first objects of the association will be the purchase and distribution of pure standard articles for medicinal, pharmaceutical, and surgical use, the exploitation, on behalf of members, of new discoveries of surgical, medicinal, or pharmaceutical interest, the purchase upon most advantageous terms of all articles of domestic use, and the cheapening of theatre and concert tickets, hotel accommodation, &c.

BERLIN PHARMACEUTICAL SOCIETY.—At the last meeting of this Society, Dr. Thoms in the chair, Mr. H. Finzelberg read a paper on "Piperazin," in which he referred to the origin of this body, spoke of its physical and chemical characteristics, and described its constitution and more important reactions. The best test for it is the scarlet red precipitate with potassio-bismuthic iodide. Mr. Finzelberg also spoke of the therapeutic properties of piperazin, and its advantages over lithium carbonate in the treatment of gouty affections, insisting upon its administration in solution. Following this was a paper by Professor R. Weber on the glass used for making chemical apparatus and medical utensils. He has observed that pure water digested in certain flasks acquires a distinctly alkaline reaction towards litmus-paper, and when water was sterilised in such vessels by heating for a considerable time at 102° C. it was found to have dissolved out silicate. Professor Weber attributes this fault to the use of too much alkali and too little lime in the manufacture of the glass, and he believes that by using twice as much lime the glass would be greatly improved, and its fusing-point would not be materially altered. There was another paper, by Mr. Göldner, on "Fowler's Solution." The author pointed out that the original prescription of Thomas Fowler for this preparation provided for the addition of spt. lavand. co., which is coloured with red sandalwood. This prescription is followed in England, but the German "Arzneibuch" prescribes the addition of spt. melissæ co., a colourless preparation. Mr. Göldner thought that the coloured solution is in many respects preferable, and without interfering with the flavour of the German solution, which is distinct from the English, he suggested that the addition of a little phenolphthalein would provide what is wanted. This reacting with the alkali of the solution gives a brilliant crimson colour. He had added phenolphthalein to the German solution in the proportion of 1 in 20,000, exposing the solution to ordinary influences since August 15 last, and it still retained the colour. Before the members separated, attention was called to the red bark which has appeared in the market under the name cort. ararihæ rubræ or cort. sickingiæ rubræ. It is the bark of the stem of *Sickingia rubra*, but Mr. Waage stated that two distinct drugs go by the name, and they are at present under investigation therapeutically.

The "Desiccated Soup" Trade-mark.

At the Mansion House on March 10, Mr. J. R. Croft, of 5 Water Lane, City, attended before Mr. Alderman Renals on an adjourned summons under the Merchandise Marks Act charging him with having caused to be forged the trade-mark "Desiccated Soup." The defendant trades as the Pure Beef Company, and the plaintiffs, Messrs. Frederick King & Co. (Limited), of Camomile Street, who are the registered proprietors of the trade-mark in question, allege that he had sold a mixture of pea-meal and animal matter to which the forged trade-mark had been applied. Mr. Fillan, for the defence, said the complainants were seeking to avoid a Chancery decision by means of these criminal proceedings. He was moving the Chancery Division next week to have the so-called trade-mark expunged from the register. Mr. Asquith, Q.C., who represented the plaintiffs, said the Chancery proceedings could have no effect on this charge under the Merchandise Marks Act. Even if the Chancery Court should decide against the mark, the decision would have no retrospective effect. After a long investigation, the Alderman considered a *primâ facie* case had been made out, and committed the defendant for trial, accepting his own recognisances for 500*l*.

Hair *v.* Geddes.

At the Bow Street Police Court, before Mr. Vaughan, on Friday, March 11, W. E. Geddes, of 45 Farringdon Road, E.C., and 249½ High Holborn, W.C., again appeared in answer to the charge preferred against him by B. W. Hair & Co., of 249½ High Holborn, W.C.

Mr. Wontner, for the prosecution, said he had endeavoured to give effect to the suggestion Mr. Vaughan had thrown out at the previous hearing of the case, and he hoped that ultimately a settlement of the case would be arrived at, although at present this had not been attained. In regard to the case generally, in view of the restriction which Mr. Vaughan had placed upon the scope of the inquiry—a restriction which, he confessed, struck him as a very proper one under the circumstances—he felt it would be quite impossible for him to proceed with the case so as to lay it before the magistrate in a form which he could ask him to commit upon. He did not propose to go on with the case now, but would take other steps which would enable him to come to that court again. He would not offer any further evidence, and did not ask for the case to be allowed to proceed.

Mr. Avory (for Mr. Geddes) said he presumed that formally the summons would be dismissed. It must, however, be clearly understood that the course taken by the prosecution was not the result of any arrangement or compromise between them and the defendant.

Mr. Wontner: I most distinctly confirm that, Mr. Avory.

Mr. Avory, continuing, said this charge had been hanging over his client's head for two months, and it was absolutely necessary that it should be disposed of in this manner, and without any condition whatever. He hoped, having regard to the fact that the case had been so prolonged, that he might be allowed to say that from the first hearing he had witnesses in the court for the purpose of showing that the test-letters, to which the case was practically reduced, were found in the defendant's letter-box cut open. They were taken away by him for the purpose of consulting his solicitor, in order to see what he ought to do to protect himself from what he believed to be a false charge. The letters were found in the box cut open, and somebody must be responsible for having put them there.

Mr. Vaughan said it was only necessary for him to say that he concurred in the course which had been proposed by Mr. Wontner and sanctioned by Mr. Avory; but, at the same time, while he must observe that the circumstances disclosed in the case seemed to him to show that there was an absolute necessity for proceedings of that kind being instituted, it would be very unfortunate if further litigation were to take place when it was perfectly clear that it was open to the parties themselves to prevent the possibility of any misdirection by adopting the suggestion which he (Mr. Vaughan) threw out on the last occasion—namely, that the businesses should be carried on in different localities. It was perfectly clear to him that if Mr. Geddes's asthma cure was one which was superior in its qualities to that which had been invented or prepared by Dr. Hair, then Mr. Geddes's preparation would attain superiority in the market, and persons would be disposed to apply for his remedy, and not for Dr. Hair's. On the other hand, Dr. Hair might have the support of a larger portion of the public than Mr. Geddes. It appeared to him that Mr. Geddes had by no surreptitious means endeavoured to obtain the benefit of Dr. Hair's invention, or to attain the execution of orders, or payment of money, or commit any other culpable offence. He (Mr. Vaughan) left the matter to the good feeling of the parties, in the hope that further litigation would be prevented. The summons was dismissed.

[We have received letters from both parties to the above suit. Messrs. B. W. Hair & Son send us a copy of a letter which they had sent to the *Echo*, which paper, it appears, had published a report of the case which was not satisfactory to Messrs. Hair. The points Messrs. Hair wish to have made clear are that their reason for dropping the charge was that others might be made against several persons whose names had been previously mentioned by Mr. Wontner, and that the magistrate, Mr. Vaughan, stated in court that he considered the investigation made before him was a perfectly proper one to have been made. Mr. Geddes writes as follows:—

> Since the unconditional withdrawal by the prosecution of the charges made against me, and kept hanging over my head for over two months, I have received numbers of letters and telegrams from all parts, congratulating me on the result of the proceedings. As it is impossible for me at the present time to answer all these communications personally, I desire to be allowed, through the medium of your valuable journal, to thank my correspondents, and to inform them that immediately the proceedings were withdrawn my solicitors issued a writ claiming damages for malicious prosecution and false imprisonment, and I shall have an opportunity before a jury of bringing to light the whole circumstances.

It is clear that the proceedings have not yet arrived at a stage which would justify us in making any comments on the action or on the above communications.]

Dog-pills.—Margetts and Hancock *v.* Judson.

At the Ripon County Court on Saturday, before his Honour Judge Turner, an application was made for a new trial in this matter. The case had been tried at a previous sitting of the Court, when plaintiffs sued defendant to recover damage for loss of dogs, alleged to have been poisoned by the improper mixing of pills supplied by defendant. The jury gave a verdict for the defendant, and the question was whether that verdict was a reasonable one. Evidence had been given by the trainer of the dogs that they died after the pills had been given them. They also had the analysis of a chemist, showing that out of a sample of pills three contained no extract of nux vomica, which was one of the ingredients. The argument was that this showed an improper mixture, and that as there was none of the extract of nux vomica in some of the pills, there would be a poisonous excess in others. The evidence for the defendant was purely hypothetical. The question submitted to his witness was if the ingredients were properly mixed would the results have been as stated by the plaintiffs? and the reply was that if they were mixed in the way described they would be properly mixed. Mr. Parfitt (on behalf of plaintiffs) submitted that the weight of evidence went to show that the pills were not properly mixed. He also stated that since the trial defendant had written to a local paper, and seeing that the case had been discussed in the town, he would ask that if a

new trial were granted it be held elsewhere. Mr. Kershaw (on behalf of defendant) submitted that the superior Courts were most reluctant, where a case had been fairly fought out before a judge and jury, to disturb the verdict. The only ground upon which new trials were granted was that the conclusion arrived at was such as no reasonable men could come to on the evidence before them. The evidence of Mr. Fairley, public analyst of Leeds, was to the effect that the pills, according to the prescription, were tolerably uniform in composition, and that they contained no excess of the alkaloid strychnine. Of the six pills sent to Mr. Fairley three were found to be according to prescription. It was argued from this that the mixture was uniform in the whole of the pills, and it was submitted that this was evidence upon which the jury might rely. Hancock, the trainer of the dogs, was not sure what pills he brought with him from Spalding Moor, and it was quite possible that he had pills which contained strychnine, and others that did not contain any; therefore with the evidence before them the jury returned such verdict as reasonable men would be expected to give. His Honour said in his opinion it was evident that the verdict given was not a reasonable one. It was proved that three pills contained no strychnine, and therefore the other strychnine must have gone into the other pills; consequently he should grant the application, and he ordered the case to be tried at York.

A Shipping Case.

A difficult question came before Justices Williams and Collins on March 11, in the Queen's Bench Division, by way of appeal from the Swansea County Court. Messrs. Ferd, Buller & Co., of Messina, had shipped to London 200 tons of brimstone for a Swansea dealer named Sullivan. Their London agents had sent the bill of lading and a bill of exchange for 905*l.* to Sullivan, who accepted the latter and returned it. A third party obtained a judgment against Sullivan for 650*l.*, whereupon he returned the bill of lading to Ferd, Buller & Co.'s agents, and soon after filed his petition in bankruptcy. The execution creditor then levied on the brimstone, which was sold; but, others intervening, the money for it was paid into Court, and the county-court judge had ordered it to be paid to the trustee in bankruptcy. Ferd, Buller & Co. now appealed, claiming that, notwithstanding the delivery of the bill of lading, the *transitu* continued until after the notice had been served on the master of the vessel not to deliver the cargo to the bankrupt, that they did no more than was necessary to assert and preserve their rights as unpaid vendors, and that the returning of the bill of lading by the bankrupt on August 19 was not an act of bankruptcy, and did not give them a preference over the bankrupt's other creditors. Mr. Justice Vaughan Williams, in his judgment, said the redelivery of the bill of lading to the vendors was itself a conversion of the goods to which it related, although the goods were not in the actual possession of those who wrongfully effected the transfer. He had reluctantly come to the conclusion that the judgment of the learned county-court judge in favour of the trustee and against Messrs. Ferd, Buller & Co. must be affirmed. He had arrived at that decision with reluctance, because he had a strong feeling that the bankrupt only did what was honest and right in returning the bill of lading to the unpaid vendors. Mr. Justice Collins said he had the misfortune to differ from his learned brother. In his opinion, the handing of the bill of lading by the bankrupt to the vendors no more interfered with the latter's existing right to stop *in transitu* than if a thief had stolen the document from the pocket of the vendee and deposited it in that of one of the vendors. In his opinion, the decision of the learned county-court judge was wrong, and ought to be reversed. Mr. Meager asked how judgment would be entered. Mr. Justice Collins said the appeal would be dismissed with costs. Mr. Paine asked for leave to appeal and a stay of execution pending appeal. Mr. Justice Collins granted the application.

Hypodermic Syringes.—A French medical paper is suggesting that pharmacists should not be allowed to sell hypodermic syringes and solutions, on account of the growth of morphio-mania in France.

NEW COMPANIES.

Papulafuga Manufacturing Company (Limited).—Capital 2,000*l.* in 1*l.* shares. Object: To establish and carry on the wholesale and retail trade or business of owners, makers, and vendors of the remedies known as the Papulafuga remedies in all their branches, and to carry on the business of owners, makers, and vendors of patent medicines, drugs, pills, waters, essences, tinctures, &c. The first subscribers (who take one share each) are:—E. R. Macadam, 44 Hume Terrace, Darlington, cycle agent; J. W. Mackie, 33 East Powlett Street, Darlington, builder; B. Thompson, Hurworth, clerk; R. Appleton, Smithfield Road, Darlington, engineer; A. Macadam, 44 Hume Terrace, Darlington, clerk, and Jane Gordon, Rosslyn House, Darlington. Registered without articles of association.

London Soda-works and Trading Company (Limited).—Capital 10,000*l.*, in 5*l.* shares. Object: To carry on business as soda manufacturers in all its branches. The first subscribers (who take one share each) are:—M. C. Herbert, Horseferry Road, Limehouse, E., soda manufacturer; M. K. Herbert, 25 Belsize Park, N.W.; E. Sellentin, Horseferry Road, E., manager; A. E. Goodchild, Gresham House, E.C., solicitor; C. T. Young, 49 Stoke Newington Road, N., solicitor; D. W. Young, 24 Wilson Road, Camberwell, agent; and J. J. Fleming, 2 Beckford Villas, Leyton, clerk. There shall not be less than three nor more than five directors. The first are the first signatories to the memoranda of association. Qualification, holding shares. Remuneration to be determined by the company in general meeting.

D. W. Bardill & Company (Limited).—Capital 8,000*l.*, in 5*l.* shares. Object: To acquire the undertaking of a chemist and druggist, now carried on by D. W. Bardill at Derby and at Burton-on-Trent, and to carry on and extend the same in all its branches. The first subscribers (who take one share each) are:—D. W. Bardill, Charnwood Street, Derby, chemist; W. Randall, 207 Normanton Road, Derby, manager; E. Socker, Dunkirk House, Derby; C. T. Weston, 166 Buxton Road, Derby, chemist; S. Bennett, Jr., Leopold Street, Derby, grocer; H. Dutton, 43 Leopold Street, Derby, merchant; and H. J. Gauge, 171 High Street, Burton-on-Trent, chemist. There shall not be less than two nor more than five directors. The first are D. W. Bardill and W. Randall. Qualification, 1,000*l.* and 500*l.* respectively. Remuneration, 350*l.* and 175*l.* respectively.

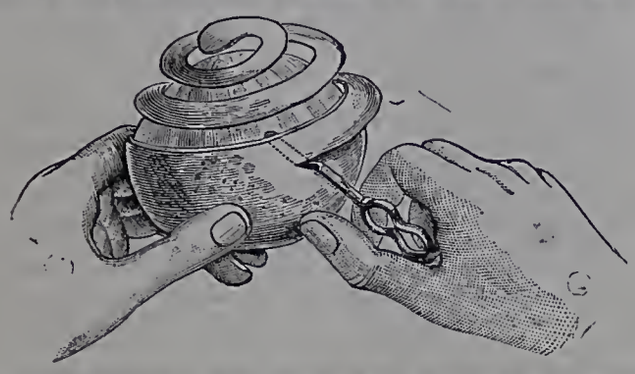
M. Valentine (Limited).—Capital, 1,007*l.*, in 1*l.* shares. Objects: To acquire the undertaking of a hair-dye manufacturer, now carried on by W. A. McCurd, under the style of M. Valentine, and to carry on and extend the same in all its branches, and to deal in drugs, medicines, toilet requisites, &c. The first subscribers (who take one share each) are:—A. Richardson, 49A Lincoln's Inn Fields, solicitor; W. H. Fassett, 32 Snow Hill, London, merchant; R. R. Hunting, 56 Priory Road, London, N.W., clerk; W. Rees, 33 Newlyn Road, London, N., clerk; F. P. Fassett, 39 Baker Street, W., clerk; Isabel Fassett, 139 Finchley Road, N.W.; and V. Douglas de Wet, 8 Great James Street, Bedford Row, clerk. There shall not be more than five nor less than three directors, and the first are F. P. Fassett, W. H. Fassett, and W. A. McCurd. Remuneration to be determined in general meeting. Registered office: 39 Baker Street, London.

Ramsbottom Mineral Water Manufacturing Company (Limited).—Capital, 3,000*l.* in 1*l.* shares. Object: To acquire the business of mineral water manufacturers, formerly carried on at Chatterton by Messrs. Butterworth & Blackburn, and now by Mr. Abraham Hill, and to carry on the same. The first subscribers (who take one share each) are: S. Wilson, Railway Hotel, Ramsbottom, Lancashire, licensed victualler; J. Parkinson, Station Hotel, Ramsbottom, beer-seller; J. Altham, White Lion Hotel, Ramsbottom, beer-seller; J. Brooks, Railway Hotel, Stubbins; J. Crawshaw, Weavers' Arms, Ramsbottom; T. Sergusson, Swan Hotel, Ramsbottom; and S. Wilson, Junction Railway Hotel, Ramsbottom, licensed victuallers. The above, with the exception of the last named, are the first directors of the company. Remuneration to be determined in general meeting. Registered office: Chatterton, Ramsbottom, Lancashire.

Notes of Novelties.

SIMPLEX ORANGE-PARER.

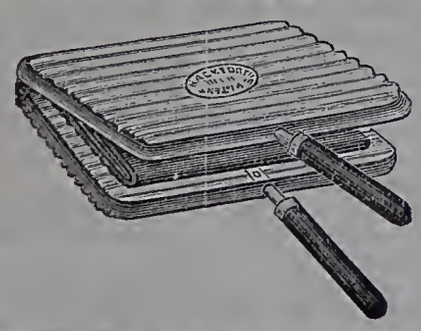
It is almost *tot homines, tot* ways of eating an orange. Some horrible people cut the fruit into quarters with a steel knife; others take half the rind away, and then, regardless of anatomical difficulties, struggle to extract the juicy pulp from the cup thus created. They generally withdraw from the attack with golden-tipped nose and chin. The only elegant way of appropriating the luscious globelet is to pare it completely,



and then divide it into the sections which nature has thoughtfully arranged. And to assist in this method, W. B. Fordham & Sons (Limited) now offer a little instrument, manufactured in various patterns, to sell at prices from 1*d.* to 1*s.*, by means of which the operation of orange-paring can be gracefully and delicately performed, as is shown in the engraving.

HECKFORTH'S FLANNEL-HEATER.

The novelty shown in the sketch below is another of the useful household appliances brought before the trade and the public by W. B. Fordham & Sons (Limited), the great novelty-purveyors, of King's Cross. It is a corrugated-metal case with wooden handles, and its purpose is to heat flannels



in when it is desirable to apply these to patients suffering from rheumatism, to babies, and other cases. A flannel is wetted, folded, and packed into the heater, which is then moved slowly for about three minutes over an ordinary gas-light. By this time the flannel is as hot as can be borne. The case can also be used for heating poultices.

Bad Blunders.—A Baltimore druggist recently dispensed sulphuric acid for sulphuric ether, and it was used by a dentist for anæsthetising a patient. The results to the latter were fearful, but not fatal.—An Iowa druggist recently had a bowl of lye served up to him in place of soup. Both were together on a stove, and by an accident the lye was served up. The poor man only supped a little of the corrosive liquid, but quite sufficient to put him in a critical state for some time.

Trade Notes.

Alfred J. Natali & Co., chemist's shop fitters, of 184 Aldersgate Street, E.C., have removed from Aldersgate Street to larger premises at 40 Gray's Inn Road, Holborn, W.C.

The Chesebrough Company, it will be seen, now announce that their stock of 5-lb. tins of vaseline is coming forward, and that they are getting into a position to fill orders for them.

Messrs. C. Chancellor & Co., of 3 Charterhouse Buildings, E.C., have taken the agency for Mack's double starch, which is both a starch and a starch-gloss. They offer to supply samples to shippers for their colonial customers.

Mr. Vincent Wood, of 3 St. Andrew Street, Holborn Circus, has added to his factory of surgical appliances a special workshop for the manufacture of all kinds of medical batteries, under the management of a gentleman experienced in medical electricity.

Celery Coffee is likely to attract the attention and satisfy the palates of many. It is a breakfast-table requisite made from celery only, yet it provides a beverage which is rather pleasant to taste. Those who like celery are sure to ask for it, and, as it is being introduced through druggists, it deserves a note here. The makers are the Celery Coffee Company, 634 Eglinton Street, Glasgow.

Messrs. Bird & Storey, of 42 Castle Street East, Oxford Street, W., are bringing their old-established veterinary preparations prominently before the trade this week. These preparations enjoy a considerable reputation throughout the country, and have the great advantage over many of a similar kind of being made by pharmaceutical chemists. Bird's "Botanic Essence" is the article to which they give special prominence, this being a liquid blister of great power.

Messrs. Bennett, Sons & Shears, engineers and coppersmiths, of 167 Kingsland Road, N.E., have recently purchased the business of Messrs. James Shears & Sons, of Bankside, London, and the amalgamation of the two businesses has necessitated larger premises. We may say that the firm give special attention to the production of chemical plant, and they have lately furnished several essential-oil distilleries and laboratories. The new works in Kingsland Road are of large area, and consist of four floors, the buildings being of substantial appearance. The ground floor comprises the engineers' and coppersmiths' shops, with stores and offices. On the first floor the brass-finishers', coppersmiths', and braziers' shops are located, and the second floor is fitted with wood-working machinery for the manufacture of vat and back work, millwrights', carpenters', and pattern-makers' work; beyond this being another coppersmiths' marking-out and erecting shop. The top floor is used as a store for patterns, &c. Altogether the firm have a thoroughly good equipment for their business, and for ensuring accuracy and despatch.

Russian Chemists Organising.—A pharmaceutical society has been recently formed in St. Petersburg, and has received official sanction. At Helsingfors a chemical society has also recently been formed with Director E. Tirst as president, and Professor E. Hjelt vice-president, and Dr. W. Jusliu as secretary.

Recording Sales of Liquor.—Some time ago we reported that Mr. Elborne, an English druggist now settled in Canada, had been fined for failing to make a proper record of sales of alcoholic liquors in a book. The record had been made on a slip of paper, and that, the Judge considered, was not according to statute. Mr. Elborne has appealed against the decision, or rather, three decisions, and in two he has succeeded in getting the convictions quashed, but a third case has still to be heard. The decisions do not, however, disprove that it is legal to record sales on slips of paper. Mr. Elborne was able to prove that the sales which he made were lawful as sales, and he has got the fresh decisions without costs, so that he is a good deal out of pocket by his perseverance.

THE DRUG TRADE IN INDIA.

(*From our Bombay Correspondent.*)

PERSONAL CHANGES.—Some important changes are impending in the management of Messrs. Treacher & Co.'s business. The present manager, Mr. T. W. Tucker, is leaving the firm, and Mr. William Carter becomes manager in India. It is understood that at the end of the year Mr. Colclough, who for many years has been the head of the London office, will retire from business, and that Mr. John Morgan, now manager of the Poona branch, will take his place. To those of the wholesale drug trade who have dealings with Messrs. Treacher & Co. it may be interesting to know that in Mr. John Morgan they will find a gentleman of great courtesy and urbanity. Messrs. C. F. Pearson & Co. have opened a branch at Bezwada, and Mr. Wingrave has been put in charge. Mr. Pearson himself has been invalided through overwork, and has gone to Australia by the P. & O. s.s. *Pekin* for restoration of health.

BOMBAY EXPORTS.—Owing in a measure to the low exchange, our exports have been stimulated to a very large extent, and we have had more outside steamers loading for London lately than we have had for some time. Stocks of some articles dealt in by the drug trade are very low.

INDIAN GERANIUM OIL (RUSA OIL).—This oil has of late years become an important export article from Bombay. It is manufactured in the Kandeish district of the Presidency after the monsoon season, when the crop of grass is best. The oil is sent down to Bombay for sale by native brokers. Owing to more careful distillation a very fine oil is now being sent out by distillers, and this grade has created, both in England and in Germany, a larger demand than can be met this year. Last season native distillers became aware that they could get higher values, so this season sees a very substantial advance in prices, notwithstanding which the available supply has been already bought up. That this high-grade grass oil is indubitably worth more attention than has hitherto been bestowed upon it is shown by the rapid depletion of stocks. We may, therefore, look for a heavy advance in price in the English market, and 10*s.* per lb. will certainly be a likely quotation, c.i.f. terms, for No. 1 quality at no distant date.

GHATTI GUM (FINEST SORT).—There is no heavy stock, as supplies have been short. This gum is exclusively used in India by pharmacists. The English druggist has apparently not yet found out the value of this drug, which can be had in all qualities, and is (in the best grades) double the strength of Turkish gum acacia.

NUX VOMICA.—At present we have very little of the new season's stock, which is very slow in arriving.

Personalities.

MR. A. E. THOMPSON, chemist, of 28 Endsleigh Gardens, St. Pancras, is to light his premises with electricity.

MR. H. W. ROBERTS (from Williams & Elvey's and Savory & Moore's, Bond Street) has taken Mr. Walton's business at 204 Haverstock Hill, N.W.

LETTERS for Mr. Septimus Vaughan Morgan may now be addressed to the office of *The Chemist and Druggist of Australasia*, Fink's Buildings, Melbourne.

DR. KITASATO, Dr. Koch's Japanese assistant, whose name has become well known in connection with the tuberculin controversy, is about to leave Berlin. He returns to his native country as head of a new bacteriological institute in Tokio.

MR. WILLIAM LOCKWOOD, trading as William Lockwood & Co., chemical brokers, Liverpool, has disposed of his business to Mr. Jas. McMillan and his son, Mr. Norman McMillan, the latter gentleman having been in the employ of the firm for some considerable time. In our issue of last week we stated erroneously that Mr. Jas. McMillan had been in the employ of Messrs. Lockwood & Co., but have since heard to the contrary.

BANKRUPTCY REPORTS.

Re KATE SINCLAIR and EDITH MARY SINCLAIR, trading as the Saydi Challenge Remedies Company, 41 Byrom Street, Liverpool.

THE public examination of these debtors was held at the Liverpool Bankruptcy Court on March 10. The last-named only appeared. The statement of affairs showed that the liabilities were 1,160*l.* and the deficiency 959*l.* 10*s.* Mr. G. B. Lockett represented the petitioning creditor. When the case was called on, Mr. Edwin Morris, solicitor, a creditor for 1,069*l.* 16*s*, and who appeared for the debtors, informed the Registrar that there would be a proposal to pay the whole of the debts and the costs at the meeting of the creditors to be held that afternoon. In view of that statement, the examination was adjourned till the next day. When the case came on on March 11, the Official Receiver said there did not appear to have been any foundation for that statement except that a telegram had been sent to a Mr. Sinclair, of Boston, Lincolnshire, asking him to advance 250*l.* That gentleman had replied, declining to advance the money. Mr. Morris said he had been instructed to make the statement.

Both debtors were now present, and they made some very extraordinary statements in reply to the Official Receiver. Kate Sinclair is 24 years of age, and Edith, her sister, is 22. The former was some time since a nurse at a hospital at Pendlebury, near Manchester. Both were entitled to some money under their father's will. Kate stated that the amount left to her was 2,200*l.* Mr. Edwin Morris, solicitor, North John Street, Liverpool (according to Kate Sinclair's evidence), had recommended her and her sister to invest some of their money in the business now in bankruptcy. They had had nothing to do with the management of it. Kate had been on the doorstep, but Edith had only been past the shop. It was in Great Byrom Street. In answer to the questions of the Official Receiver, Kate invariably replied that she knew nothing. She intimated that she had trusted all to Mr. Morris, and had signed whatever papers he brought to her, though he always read them to her. She had signed a lease of the premises at 400*l* a year for the first three years, 500*l.* for the next three years, and 650*l.* for the last four years. The Official Receiver had ascertained that before her lease commenced the premises were let at 165*l.* per annum, were assessed to the poor at 167*l*, net 150*l.*, and to the borough rates at 158*l.* Debtor said Mr. Morris was the landlord.

Edith Sinclair in her evidence said she had commenced proceedings against Mr. Morris on the advice of her own solicitor, Mr. Malcolm. She was not satisfied with the affairs, and she had sworn an affidavit, which was sent to the Incorporated Law Society. She had made a mistake in one particular in that affidavit, and, under threat of an action for perjury made by Mr. Morris, she had signed a second document withdrawing the first.

It was alleged that 1,000*l.* had been paid from the Court of Chancery on behalf of Miss Kate Sinclair into this business, but it did not appear in the accounts.

Mr. Morris, who claims as a creditor for 1,069*l.*—partly for rent and partly on some mortgage transactions—was invited by the Registrar to offer some explanations. He said he could put a different light on the affair, but he preferred to reserve his statement. The examination was adjourned in order to allow him, as Miss K. Sinclair's solicitor, to amend the statement.

The following are scheduled as creditors:—

	£	s.	d.
Allen & Hanburys, London	22	10	0
Jahnoke, Ernest, London	60	0	0
Morris, E., Liverpool	1,069	0	0
Fully-secured Creditors.			
Jones, T. R., Birkenhead	330	0	0
Keene, W. B., London	307	10	0
Preferential Creditors for Rent.			
Harrison, Leo, Tranmere	27	0	0
Morris, E., Liverpool	300	0	0

Re HENRY DELPECH, trading as H. Delpech & Co., 21 Mincing Lane, Merchant, Broker, and Agent.

AT last Wednesday's sitting of the London Bankruptcy Court this bankrupt applied to Mr. Registrar Giffard for an order of discharge. The bankrupt filed his own petition last December, ascribing his failure to bad debts and losses on contracts, also to depreciation in the value of his stocks of quinine, pepper, shellac, and aniseed.

Mr. Egerton S. Grey attended for the Official Receiver Mr. W. H. Loehnis and Mr. Arthur Griffiths opposed the application on behalf of creditors; and Mr. F. Cooper Willis appeared for the bankrupt in support of the application.

The Official Receiver reported that proofs had been tendered for sums amounting to 15,066*l.* 2*s.* 4*d.*, and that the assets were not expected to realise more than 100*l.* That the bankrupt commenced business in June, 1888, with a capital of 150*l.*, borrowed from friends, and continued to trade down to the failure. The business consisted chiefly in shipping drugs, rice, and coffee to the Continent, and, being entirely without capital, the debtor raised the necessary funds to enable him to carry on the operations by drawing on his consignees and discounting the bills with his bankers. His credit with that firm (Murrieta & Co.) appeared to have averaged between 10,000*l.* and 15,000*l.*, but in January or February, 1891, owing to bills to the amount of several thousands of pounds which had been discounted by him being dishonoured, Messrs. Murrieta & Co. refused to make the bankrupt any further advances, and requested him to settle the accounts. Having no assets except such as were deposited with Messrs. Murrieta & Co., the bankrupt was unable to comply with the request, and ultimately had to file his petition. At the latter end of 1891 he was instructed by Messrs. Sutton & Co, of Alexandria, to purchase 1,000 bags of coffee, and he received 400*l.* from that firm in respect of the purchase. He expended the money on his general business, and did not purchase the coffee, although he wrote to Messrs. Sutton & Co. to the effect that their instructions had been carried out. When questioned on the matter at the public examination, the bankrupt admitted to the Official Receiver that his instructions were to buy the coffee, and the remittances were as a guarantee on the purchase. In reply to his counsel at the same sitting, he said the transaction was a thoroughly speculative one, and the 400*l.* was simply a cover for differences. The Official Receiver reported that the bankrupt had been guilty of fraud in respect of that transaction, and he alleged three other offences—viz., (1) that the bankrupt had traded with a knowledge of insolvency, (2) imperfect book-keeping, and (3) that the assets were not equal in value to 10*s.* in the pound on the unsecured indebtedness.

Mr. Loehnis and Mr. Griffiths opposed the application on the same grounds, and asked to have the bankrupt placed in the witness-box.

Mr. Cooper Willis objected on the ground that notice had not been served upon his client of the opposition by creditors.

The opposition was thereupon limited to the grounds contained in the Official Receiver's report.

Mr. Cooper Willis, in making the application, chiefly dealt with the charge of fraud. He contended that the allegation was of a most flimsy character, and was entirely unsupported by evidence, although Messrs. Sutton & Co. had had plenty of time to make a sworn statement in the interval that had transpired since the public examination.

In giving judgment, the learned Registrar commented on the bankrupt's reluctance to go into the witness-box that day, and said that, under the circumstances, he could not believe that the 400*l.* was sent by Messrs. Sutton & Co. as cover for differences on a speculative transaction. He, therefore, held that the bankrupt had been guilty of fraud as well as of the other offences charged by the Official Receiver, none of which had been displaced. That being so, he felt obliged to suspend the discharge for ten years.

Order entered accordingly.

HEN-FLEW-EN'-WAYS, is an American boy's way of pronouncing influenza.

DEATHS.

ARNOLD.—On January 13, John Arnold, chemist and druggist, Brighton. Aged 56.

BERRY.—On February 19, James Berry, chemist and druggist, late of Brighouse. Aged 48.

CLEMISHAW.—On January 22, John Lumley Clemishaw, chemist and druggist, Bury. Aged 49.

COOHER.—On March 6, John Aickman Cocber, chemist and druggist, of 3 St. James' Street, King's Lynn. Aged 62.

CRAWSHAW.—On March 7, after a long and painful illness, Ann, the beloved wife of Norman Crawshaw, chemist, of 292 Falkner Street, Liverpool. Aged 59.

DAVIES.—On February 23, John Davies, chemist and druggist, Upper Gornal. Aged 70.

EVANS.—On March 12, D. C. Evans, chemist and druggist, of Tonbridge Road, Maidstone. The deceased gentleman, who was a native of North Wales, had for many years carried on a successful business at Maidstone, and was greatly respected by all with whom he came in contact.

GLOVER.—On February 23, Samuel Glover, chemist and druggist, Liverpool. Aged 72.

GREGORY.—The death is reported of Mr. Edmund Gregory, a well-known Canadian pharmacist. According to the *Canadian Pharmaceutical Journal*, Mr. Gregory was born in 1831 at Frome, Somersetshire, where he received a good English education, with some knowledge of the classics. When about 23 years of age he came to Canada, and shortly after entered the drug-store of Mr. R. W. Errit at Millbrook, Ontario, in which village he subsequently went into partnership with Mr. John Knowlson. In 1860 the firm removed to Lindsay, and, six years after, Mr. Gregory continued the business alone, and maintained it until the time of his death.

MORGAN.—On February 29, Frank Gaudrion Morgan, chemist and druggist, Preston. Aged 71.

POTTER.—On March 2, William Samuel Potter, chemist and druggist, Plaistow. Aged 65.

SCARTH.—On February 24, Michael Scarth, chemist and druggist, Southwick, Durham. Aged 52.

DR. CHARLES MEYMOTT TIDY, the eminent toxicologist and chemist, died on Tuesday last. Dr. Tidy, who was well-known in pharmaceutical circles, was a singularly brilliant and original worker, and was regarded as an eminent authority, especially on all sanitary questions. He was official analyst to the Home Office, medical officer of health for Islington, and lecturer on chemistry and medical jurisprudence at the London Hospital Medical School. He graduated in medicine with the highest honours at Aberdeen University in 1866, and had also been called to the bar. He was the author of several well-known works on medicine and chemistry, and was a popular lecturer. He had an appointment to deliver a lecture on "Disinfectants" last week at the London Institution, which had to be postponed on account of his illness.

TWADDLE.—On February 27, Robert Twaddle, chemist and druggist, Glasgow. Aged 45.

WILTON.—On March 5, John Wilton, chemist and druggist, Leeds. Aged 75.

WRIGHT.—On March 1, John Armstrong Wright, chemist and druggist, Bedford Leigh. Aged 44.

"THE WORK IS MOST EXCELLENT."—So said the leading American druggist's journal three years ago of "The Art of Dispensing." Since then it has become the standard book on the subject. If there is a difficulty to be solved at the dispensing-counter, ten to one it contains a hint about that very thing. It gives concise pharmaceutical notes on new remedies, is full of hints about pills, suppositories, and emulsions; in short, it is a book which every student, assistant, and employer should have. It is published at 3*s.* 6*d.*, and may be obtained by post from the publishers, 42 Cannon Street, E.C., for 3*s.* 10*d.*, or ask your wholesale house to send you a copy with the next parcel of goods. All the leading houses stock it.

TRADE-MARKS APPLIED FOR.

THE *Trade Marks Journal* publishes the following notice:—"Any person who has good grounds of objection to the registration of any of the following marks may, within one month of the date of this journal give notice in duplicate, at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1890, of opposition to such registration." All communications to be addressed to H. Reader Lack, Esq., Comptroller General, at the Patent Office, 25 Southampton Buildings Chancery Lane, London, W.C.

(*From the "Trade Marks Journal," February* 24, 1892.)

Sketch of arm and hand, grasping lightning bolts; for an embrocation for cattle. By J. G. Ellis, trading as Ellis's Electric Oil Co., 59 Jermyn Street, London. 161,413.

Sketch of the Globe, with flying figure of Mercury scattering substance from jar, and wording; for disinfectants. By G. Mayor & Co., Love Lane, Bankside, Southwark, S.E. The essential particular is the device, the added matter, except the name, being disclaimed. 159,651.

An earring, and "Golden Ear-drop," and other wording on label; for medicated ear-drops. By T. Richardson, 64 Stockwell Road, Surrey. The essential particular is the central device of an earring, the added matter, except the name, being disclaimed. 158,437.

Sketch of cherub sitting on cask, holding bunch of grapes and glass, and wording on label; for mineral and aërated waters. By J. Sumner & Co., Haigh Brewery, Wigan 158,777.

"SPARKLING PURITZER," on hexagonal design, showing sketches of snow crystals, and wording; for aërated water. By Reynolds & Branson, Leeds. The essential particular is the device, the added matter, except name and address, being disclaimed. 159,521.

"DAILY BREAD"; for mineral and aërated waters, and for perfumery and toilet articles. By Paul Pfleiderer, 86 Upper Ground Street, Blackfriars, S.E. 161,733, 161,736.

"W. H. DIXON," as signature; for perfumery and toilet articles, &c. By W. H. Dixon, 51 and 53 High Street, East Grinstead. 161,831.

(*From the "Trade Marks Journal," March* 2, 1892).

CARTER'S SMART-WEED AND BELLADONNA BACK-ACHE PLASTERS, with sprigs of those plants and wording shown on label; for surgical and medicinal plasters. By the Carter Medicine Company (Incorporated), 46 Holborn Viaduct, E.C. The essential particular is the combination of devices, the added matter, except the name "Carter's," being disclaimed. 153,958.

"D. CARRINGTON," as signature; for pills. By J. Kendal (trading as D. Carrington), 106 Cheapside, London. 161,589.

Symbolical sketch of winged lion, holding dagger, with open book; for oils for use in medicine and pharmacy. By C. E. Schmidt (trading as J. G. Schmidt), Genoa, Italy. 161,615.

"MALTO RICINE," and sketch of leaf; for a medicinal preparation. By Burroughs, Wellcome & Co., Snow Hill Buildings, Holborn Viaduct, London. The essential particular is the device, the added matter being disclaimed. 161,791.

Sketch of, and entitled "Peterborough Cathedral"; for mineral and aërated waters. By T. & G. Smith, Bamber Street, Peterborough. The essential particular is the representation of the cathedral, the words "Peterborough Cathedral" being disclaimed. 161,185.

(*From the "Trade Marks Journal," March* 9, 1892.)

"MAGIC DROPS," and picture of a wolf's head; for a patent medicine for human use. By George Wise, trading as Arthur Wilson, 134 Brook Road, Stoke Newington, N. The essential particular is the device of a wolf's head, the exclusive use of added matter being disclaimed. 160,253.

Box design, with sketch of a king holding sceptre, and Shakesperian quotation; for medicines and goods in Class 3. By the Lever Wholesale Grocery Company (Limited), Market Street, Wigan. The essential particular is the device, the exclusive use of the added letterpress being disclaimed. 161,060.

Sketch of a kangaroo and tree; for chemical substances used in medicine and pharmacy. By A. M. Bickford & Sons, Currie Street, Adelaide, South Australia.

"KALYPTOGEN"; for medicinal preparations for human use. By G. D. Yates, 6, Claughton Firs, Oxton, Birkenhead. 162,027.

"AGRIPPIN"; for medicinal preparations for human use. By Thomas Forster, Earlstown, Lancashire. 162,043.

"HERBERT & CO.'S AKERNE"; for a preparation for the teeth. By H. Roberts, J. M. Lewis, and J. Hughes, trading as Herbert & Co., 344 Caledonian Road, London. 160,790.

"SYLPHIDES"; for a toilet pomade. By J. D. H. Bigwood, 26 Queen Victoria Street, London. 161,786.

Sketch and wording of "FLEUR-DE-LYS"; for perfumery and toilet articles. By J. C. and J. Field, Upper Marsh, Lambeth, London. The essential particular is the device, the exclusive use of the words "Fleur-de-Lys" being disclaimed. 161,839.

(*From the "Trade Marks Journal," March* 16, 1892.)

"PACITA," monogram, and palm branches, with wording, on label; for a veterinary medicine. By E. L. Scott, trading as Edmund & Co., 28 Elvaston Place, London. The essential particulars are the combination of devices, and the word "Pacita," the exclusive use of added matter, except trading style and address, being disclaimed. 159,605.

Sketch of youth's head, holding package in mouth with title "STOPIT"; for a cure for toothache. By F. J. Holloway, Exchange Street, Blackburn, Lancs. The essential particular is the device, the exclusive use of added matter being disclaimed. 159,823.

"A. FENNINGS," as signature, and FENNINGS' WORM-POWDERS and Fennings' Adult Cooling-powders; for medicine for human use. By A. Fennings, West Cowes, Isle of Wight. The essential particular of each is the signature, the exclusive use of added matter being disclaimed. 161,411, 161,412.

"VIKING" BRAND, and sketch of Norse sea-king holding little child on shield, and other wording; for chemical substances used in medicine and pharmacy. By T. H. Williams, W. A. Jones, J. Hughes, and E. K. Bishop, trading as Idris & Co., 10 Ascham Street, Kentish Town. The essential particulars are the device and the word "Viking," the exclusive use of added matter being disclaimed. 162,381.

Representation of notable piece of sculpture of mother and two infants, entitled "Maternity"; for infants' and invalids' food and biscuits. By G. Mellin, Stafford Street, Peckham. The essential particular is the device, the exclusive use of added matter being disclaimed. 153,742.

Sketch of Salvation Army's crest and motto for mineral and aërated waters. By Wm. Booth, trading as the Salvation Army, 101 Queen Victoria Street, London. The essential particular is the combination of devices, the exclusive use of added matter, except the trading style, being disclaimed.

Signature, wording, and design of a star within a double-lined square; for dentifrice for human use. By Oswald Hanson, 1 Ward's End, Halifax. The essential particulars are the device and fac-simile signature, the exclusive use of added matter, except the name and address, being disclaimed. 161,597.

"TONTINE" SOAP; for perfumery and toilet articles. By David Thom & Co., Whit Lane Works, Pendleton. The essential particular is the word "Tontine," the exclusive use of added matter being disclaimed. 161,657.

The following applications for Patents have been registered at the Patent office.

Aërated-water Apparatus. — 22,233. — December 19, 1891.—J. W. Galloway and J. G. Chapman. Apparatus for filling and syruping artificial mineral and aërated beverages. ——974.—January 18, 1892.—W. Murray and R. Harrison. Filling-head for machines for filling bottles with aërated water.——1,705.—January 28, 1892.—H. J. R. Bowring. Sight-glass or gauge-tube for the syrup feed-pipe of soda-water bottling machines and like purposes.——1,978.—February 2, 1892.—E. L. Newsome. Apparatus or machinery for manufacturing aërated waters.

Aerated Waters.—1,226.—January 21,1892.—F. Abraham. Aërated beverages.

Arsenical Solutions, &c.—1,438, 1,439.—January 25, 1892.—I. S. McDougall and J. T. McDougall. Treatment of solutions of arsenic and other poisonous liquids for diminishing the danger incidental to their transport, storage, and use.

Artificial Musk.—1,794.—January 28, 1892.—J. Y. Johnson.

Bottle-filler.—20,997.—December 2, 1891.—S. J. Kelson. Appliance for filling bottles by means of a funnel.

Bottle-stoppers.—1,418.—January 25, 1892.—G. W. J. Allen and J. Cresswell. Improvements in stoppering bottles.

Bottles.—1,011.—January 19, 1892.—H. W. Turner. Measuring-devices to be attached to bottles.

Boxes, &c.—20,942.—December 1, 1891.—C. J. Hammond and J. van der Velden, jun. Security envelope, wrapper, cardboard, tin, and leather boxes and cases, closing.

Bunion protector.—195.—January 5, 1892.—C. B. Dadisman.

Chemical Food.—279.—January 6, 1892.—A. D. McKay.

Chemicals.—21,026.—December 2, 1891.—J. Raschen. Bicarbonate of soda.——21,333.—December 7, 1891.—G. Dean and W. Ince. Chloride of lime by precipitation.——21,482.—December 9, 1891.—C. Simkin and C. G. Picking. Apparatus for concentrating sulphuric acid.——21,555.—December 9, 1891.—H. H. Lake. Yellow prussiate of potash.——22,018.—December 16, 1891.—A. Vogt. Nitric acid.——88.—January 2, 1892.—H. H. Lake. Soda and chlorine and apparatus therefor.——89.—January 2, 1892.—H. H. Lake. Liquid chlorine and apparatus therefor.——610.—January 12, 1892.—F. Valentiner. Concentrated nitric acid.——878, 879.—January 16, 1892.—G. T. Beilby. Apparatus for the manufacture of cyanides.——1,548.—January 26, 1892.—P. Römer. Manufacture of potassium carbonate from potassium sulphate.——1,642.—January 27, 1892.—O. Imray. Manufacture of sodium and potassium bichromates.——1,652.—January 27, 1892.—C. F. Claus. Manufacture of alkaline sulphides and carbonates, and the production or recovery of sulphide of hydrogen and other by-products.——1,659.—January 27, 1892.—C. F. Claus. Manufacture of alkaline sulphates, sulphides, and carbonates, and the production or recovery of hydrate of alumina, sulphite of hydrogen or sulphur, and hydrochloric acid or chlorine.——1,692.—January 23, 1892.—G. E. Davis and A. R. Davis. Preparation of chlorine.——1,863.—January 30, 1892.—H. H. Lake. Manufacture of ammonium nitrate.

Chest-protectors.—820.—January 15, 1892.—G. F. Adams. Spongiopiline chest and body protectors.

Disinfectant Apparatus.—20,944.—December 1, 1891.—J. C. Daniel. Apparatus for disinfecting and deodorising night-chairs, chamber-utensils, slop-pails, and the like.

Enemas. — 1,995. — February 2, 1882.—T. F. Lynch. Enema boxes and syringes.

Evaporating, &c., Apparatus.—20,887.—December 1, 1891.—D. Stewart. Evaporating or concentrating saccharine liquids and apparatus therefor.

Feeding bottle.—311.—January 6, 1892.—P. Whitten. Regulators for.——1,702.—January 28, 1892.—S. Jackson. Tube-holder for feeding-bottles.——2,037.—February 2, 1892.—J. Kurman. Holder for infants' feeding-bottles.

Filters.—22,052.—December 17, 1891.—F. Caulfield.——75.—January 2, 1892.—G. Macdonald.

Infants' Food.—21,631, 21,632.—December 10, 1891.—W. R. Dodd. Food suitable for infants.

Inhalers, &c.—408.—January 8, 1892.—E. S. d'Odiardi. Electro-inhalers.

Magnet.—17,019.—October 7, 1891.—S. Townsend. Improved magnet applicable to fluids in bottles, powders, and salves in boxes and the like for medicinal purposes.

Malted Food.—96.—January 2, 1892.—J. Fordred.

Medicated Tablet.—1,782.—January 29, 1892.—R. Warwick.

Medicinal Food. — 16,909. — October 5, 1891.—A. D. McKay. Improved medicinal food.

Medicinal Wine.—1,619.—January 27, 1892.—W. Watt. A medicinal wine or beverage and bitters.

Medicine.—1,085.—January 19, 1892.—H. Bednall. A medicine for human use.

Medicine-glass. — 21,675. — December 11, 1891. — W. Coates.

Menthol, &c., Holder.—1,111.—January 20, 1892.—A. W. Shirley. Holder for menthol or other drugs or salves.

Specifications Published.

Copies of the following may be obtained from the Patent Office, Southampton Buildings, Chancery Lane, E.C., for the prices mentioned, and 1d. extra for postage if required.

1890.

20,933. Turner. Ointment. 4*d.*
21,295. Horn. Water-filler. 6*d.*

1891.

506. Munns. Syringe. 6*d.*
588. Lake. Therapeutical coatings. 6*d.*
730. Bolze. Injector apparatus. 6*d.*
956. Lams. Stoppering bottles, &c. 8*d.*
1,146. Quinlan. Babies' feeding-bottles. 6*d.*
1,511. Lewis. Infants' feeding-bottles. 6*d.*
1,976. Masterman and Woodhouse & Rawson United, Ld. Oil-filter. 8*d.*
2,082. Herzog. Liquid-measuring appliance. 8*d.*
2,257. Smales. Filtering-machine. 8*d.*
2,499. Heraens. Concentrating acids. 4*d.*
2,766. Orr. Measuring syrups. 8*d.*
3,481. Hillaby. Lozenges. 4*d.*
3,657. Howitt. Carbonates of soda. 8*d.*
4,068. Lyte. Chlorine. 8*d.*
4,352. Lutschaunig. Disinfectant, &c. 4*d.*
4,564. Chavasse. Aërating liquids. 8*d.*
5,184. Johnson. Producing benzoic acid. 4*d.*
5,263. Johnson. Salicylic-acid derivatives. 6*d.*
5,353. Mansel-Howe. Inhalers. 8*d.*
5,602. Young. Abdominal belt. 6*d.*
6,500. Kolb. Chlorine. 6*d.*
7,825. Bishop, W. B. & A. Ointment. 4*d.*
9,083. Scott. Vapourising carbolic acid, &c. 6*d.*
9,749. Balston. Nursing bottles. 6*d.*
10,202. Lake. Caustic alkali, &c. 1*s.* 1*d.*
10,629. Edwards. Condensing nitric acid. 6*d.*
10,810. Adams. Flushing syphons. 6*d.*
11,594. Justice. Filters. 8*d.*
11,965. De Wilde. Making precipitated phosphates. 4*d.*

REVIEWS

AND

LITERARY NOTES.

THE monthly reports on our foreign trade, compiled by the Imperial Federation League last year under the heading "Our Commercial Barometer," have been issued in an extended form under the auspices of the League as a shilling pamphlet. Sir Rawson W. Rawson, under whose name the "barometer readings" are issued, notices a prominent silver lining around the black cloud of 1891, and looks forward with hope into the present year.

Handbuch der Arzneimittellehre. By Dr. Theodor Husemann. Third edition. 1892. 10*s*. Berlin: Julius Springer.

THIS Handbook of Pharmacology is designed for students and medical men; it is divided into two principal parts—(1) General and (2) Special. The first of these deals, after a few preliminary pages of introduction and pharmacodynamics, with general forms of applying medicines, solid, semifluid, liquid and elastic fluid; the second with individual remedies, which are divided and subdivided in a manner that for the purposes of study leaves nothing to be desired. There is a risk that such elaboration of arrangement might have the effect of rendering reference difficult, but this is avoided in the volume before us by means of a complete list of contents and a copious index extending to 28 pages.

The value of the work lies principally in the fact that it contains references to all important remedies which have been used in medicine, including active principles, alkaloids, glucosides, and the like. Professor Husemann is not only a therapeutist but a well-known authority on materia medica, so that he is able to include the right information in the right place and to judge accurately the comparative importance of the substances which require to be treated. The pharmacist who refers to these pages in moments of need will appreciate the admirably concise and clear treatment of each monograph; words are nowhere wasted, but the precise information required is expressed in the best and fewest words, so that the matter compressed into the 650 pages of the volume covers very fully our present knowledge of pharmacology. The size of the volume has been reduced to nearly the half that of former editions by careful compression without any sacrifice of valuable material.

A Practical Introduction to the Elements of Chemistry. By W. Marshall Watts, D.Sc., &c. London, 1891: James Nisbet & Co. Small 8vo. Pp. 128. 1*s*.

ANOTHER elementary text-book of chemistry consisting of 16 chapters and 217 experiments. One of a series of elementary science manuals, prepared for the Oxford and Cambridge local examinations. Just one of those books, in fact, which a busy reviewer is tempted to name and no more; but Dr. Watts is deserving of better treatment than that, for he has produced a manual which is thoroughly interesting and instructive from beginning to end, and which is sound in its educative methods. It is a book such as this which we should place in the hands of the day-old chemist's apprentice, and give him time to do at least three of the experiments every week, with the confidence that we should get more intelligent service from the lad, and that he would be set on the road to become a more competent pharmacist than if left with only the normal means of storing scientific knowledge.

Chemical Calculations. By R. Lloyd Whiteley, F.I.C. London, 1892: Longmans, Green & Co. Small 8vo. Pp. xiv., 100. 2*s*.

PROFESSOR FRANK CLOWES in a preface to this book explains that the author, who is one of his assistants, has for several years given instruction in chemical calculations, and has also been engaged in laboratory teaching and lecturing in special branches of chemistry. There is a wholesome objection to the multiplication of text-books of chemistry, especially those small ones which cost a shilling or two, but there need be nothing but a hearty welcome to Mr. Whiteley's "Calculations." Day by day the fact is being brought home to those who laid the foundations of their chemical knowledge before most of the present-day students were born, that mathematics is an essential to exact chemical knowledge, and it is highly desirable that the student should from the outset exercise the mathematical faculty. Mr. Whiteley's selection is good, and is well suited for the requirements of Minor and Major pharmaceutical students. It contains problems referring to all the physical and chemical work which comes into the first day's examinations, and the methods employed for solving them are clear and helpful.

Handwörterbuch der Pharmacie. Praktisches Handbuch für Apotheker, Aerztl., Medicinalbeamte und Drogister Herausgeben von A. Brestowski, Wien und Leipzig. 1892. 1 lieferung, 2m. 40 pf. [F'cap 8vo. Pp. 80.]

A DICTIONARY of pharmacy seems a new thing. Certainly we have not in the English language anything exactly like this "Handwörterbuch" on which Mr. Brestowski and his host of distinguished helpers have embarked. It is proposed to publish the book in "about" twenty-four parts—an expression so familiar to British pharmacists that those who can read German will take to the "Handwörterbuch" as to an old friend. When complete it will make two handsome volumes. In style we should say that the work is like Watts's "Dictionary of Chemistry." It is mainly chemical, but materia medica and botany receive as much attention as chemistry, and all the more important articles are contributed by the specialist helpers. The information given is generally of a thoroughly practical nature, concise, and well up to date. We notice, too, that the editor is well acquainted with English literature. Thus under "Aconitine" the more important English researches are dealt with, and it is a significant commentary upon our insular prejudices, that the papers by Richards and Ashley Rogers bulk somewhat more largely in the "Handwörterbuch" than that of Dunstan and Ince, a circumstance which is probably influenced by the fact that the latter research has not been completed. On the whole a very fair estimate is made of English work in all departments, albeit now and then there are such slips as *Aloë Parryi Backer* [for *A. Perryi*, Baker.] The work promises to be one of decided interest and value. So far it takes us to Amylene Hydrate.

Proceedings of the American Pharmaceutical Association. Vol. 39 Philadelphia, 1891. Published by the Association. Royal 8vo. Pp. xxiv. + 767, with general index for vols. 31–38 (pp. 138).

A FEW months ago we received a report of the meeting of this Association which was held at New Orleans in 1891. That report is now incorporated in the present volume, but it is right that the fact should be placed on record that the Association has taken steps to place in the hands of the members, at as early a date as possible after the meeting is held, a full report of the proceedings without waiting for the larger and bulkier volume which deals also with the whole of the pharmaceutical literature of the year. The notable thing about the present volume is that it is the last which we are to have from the editorial pen of Mr. C. Lewis Diehl, who on this occasion allows the year's literature to speak for itself, while he summarises the efforts which have been made from time to time to produce year-books of pharmacy. This summary is a striking proof that amateur editing has never been a success; and that is not surprising when we read that up to 1873 the work of producing the American year-book was generally saddled upon the presidents of the Association, who were as a rule busy men in high places. Mr. Diehl was appointed reporter in 1873, and now resigns the position owing to failing, but not, we are pleased to note, critical, health. This volume will bear comparison with any he has produced, and he leaves a legacy of high standard to his successor, Dr. Charles Rice. The supplement to the volume is an excellent example of index-making, and has been compiled by Mr. Hans M. Wilder.

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Cape Colony Pharmacy Board.

OUR Cape Town correspondent has sent us a photographed group of the Pharmacy Board appointed under the Medical and Pharmacy Act passed last year, and of which we gave a full analysis in THE CHEMIST AND DRUGGIST, December 19, 1891. As all the members of the Board are known in this country as well as at the Cape, we have thought a reproduction of the group would be of interest. Mr. William Pocock (who has been chosen President of the Board) and Mr. A. Cleghorn are the Government nominees, and Messrs. Helmore, Walsh, and Mager were elected by the chemists of the Colony in accordance with the Act. A delegate of the Colonial Medical Council has also a seat on the Board, and Dr. Murray has been selected to fill this position. Mr. L. Nightingale has been appointed Secretary.

WILLIAM POCOCK (*President*), Cape Town. W. K. MAGER, Queenstown.

W. H. HELMORE, Kimberley. A. CLEGHORN, Cape Town. A. WALSH, Port Elizabeth.

Mr. Pocock was born in 1857, at George Town, Cape Colony, and was apprenticed in 1872 to his uncle, Mr. J. T. Pocock, head of the old-established firm of J. T. Pocock & Co., of Cape Town. In 1877 he proceeded to England for the purpose of qualifying as a chemist. He passed the Preliminary examination in that year, the Minor in 1878, and the Major in 1879, having studied under Dr. Muter at the South London School. At that institution he carried off the Senior Chemistry Medal. Mr. Pocock then returned to the Cape to assume sole charge of the business of J. T. Pocock & Co., of which he had, on attaining his majority in the previous year, been admitted a partner. Three years afterwards a second visit was paid by him to the Mother Country and various parts of the Continent. In 1886 he was elected Councillor of the Municipality of Rondebosch, and on four occasions was unanimously elected mayor of the same municipality—a position he held up to a few months ago, when, owing to a pressure of engagements, he felt compelled to resign.

Mr. W. H. Helmore, of Kimberley, is a son of the Rev

Holloway Helmore, a missionary in Bechuanaland, and was born at Likatlong, now within the boundaries of Griqualand West. Mr. Helmore was apprenticed at Stratford-on-Avon, and afterwards acted as assistant in London, Brighton, Bath, and Weymouth. He passed the Minor in June, 1876, and the Major in October of the same year. He returned to the Cape in 1881, and has been in business at Kimberley since 1882.

Mr. Albert Walsh, of Port Elizabeth, was born at Brackley, Northamptonshire, in 1852, and was educated at Magdalen College School and at Appleby High School. He was apprenticed in October, 1867, at Richmond, Surrey, passed the Minor in November, 1871, and the Major in April, 1874. He attended Professor Bentley's lectures for one session. Mr. Walsh came to the Cape in September, 1877, and opened business at Uitenhage, but in 1880 he left that place to assume the management of Messrs. B G. Lennon & Co.'s business at Port Elizabeth, and in 1881 was admitted a partner. In July, 1891, Messrs. B. G. Lennon & Co.'s business was converted into a limited liability company, and Mr. Walsh is now one of the managing directors.

Mr. W. K. Mager, of Queen's Town, was born at Warnford, Hampshire, in 1849, and served his apprenticeship at Horncastle, Lincolnshire, afterwards going to Doncaster, and London, and Brighton. He returned to London, and after several years' service with Messrs. Wm. Hooper & Co., Pall Mall East, he was appointed their manager. Mr. Mager qualified as a chemist and druggist in 1873. He arrived in Cape Colony in September, 1880, took up his residence in Queen's Town in the following month, and has remained in business there ever since. He is a justice of the peace for the district, and is at present President of the South African Pharmaceutical Association.

Mr. Alexander Cleghorn, at Messrs. Reeler & Co., Cape Town, was born at Dundee, Scotland, in 1850, and was educated at the Madras Academy, Cupar, Fife, in which town he served his apprenticeship. He passed the Minor examination at Edinburgh in January, 1868, and started in business at Cupar, afterwards going to Edinburgh, but he was compelled to seek the warmer climate of Cape Colony owing to his sufferings from an asthmatic affection. Since his settlement at Cape Town in 1832, Mr. Cleghorn has completely recovered his health.

ABSTRACTS OF SPECIFICATIONS.

THE following we have taken from complete specifications which have been lodged at the Patent Office within the past few weeks :—

Veterinary Preparations.

Mr. John Muir has lodged his complete specification for the patent No. 20,534, 1891, which is for lotion, drench, and powder for foot and month diseases in animals. The formula for the lotion is—

Acid. sulphurosum	10 oz.
Water	1 gal.
Burnt sugar	1 oz.

To be used for washing the feet and syringing the mouth night and morning.

The powder is composed of—

Potassium iodide	1 ser.
„ bicarbonate	1 oz.
Glauber salts	6 „
Ground pimento	1 „

This, in a quart of water, is to be given as a drench to a cow once a day. One powder is used for six sheep or four pigs, with food.

Pictet's Chloroform.

The following particulars of the way in which this article is produced are of interest at the present time. The patent (No. 15,514, Sept. 12, 1891) is taken out by Mr. S. Pitt, on behalf of Raoul Pictet & Co., and the specification states that the purification is effected in a copper cylinder, surrounded by a jacket hermetically sealed at top and bottom and provided with an inlet and outlet pipe. The process is carried out in three stages. First the chloroform in the cylinder is cooled down to − 80° C. by allowing ethyl chloride, ethylene, protoxide of nitrogen, or "Pictet's liquid," to evaporate in the jacketed space outside the cylinder, and filtering the cold liquid mass. Foreign bodies crystallising above this temperature are thus removed, and the chloroform is filtered off. The second stage is to solidify the chloroform thus obtained by reducing the temperature of the cylinder to − 82° C., when about two-thirds of it freezes against the sides of the reservoir. The remaining liquid is drained off, and the solid chloroform melted and then run out of the cylinder for the second time. The product thus obtained is finally subjected to distillation at a very low temperature under reduced pressure, the cylinder used in the previous stages of the purification now serving as the receiver. The first and last portions of the distillate are rejected, whilst the intermediate product, amounting to about 80 per cent. of the total, is obtained as "chemically pure chloroform."

Parvos.

Mr. W. S. Cundy's specification, No. 18,881, 1891, is for an improved medicine to take the place of pills. This is called "Parvos," and is made like lozenges. The inventor takes 3 grains of podophyllum resin, 1 oz of finely powdered sugar, and mixes with liquid gum to form a stiff paste, flavouring if desired. It is rolled out on starch to $\frac{1}{8}$ in. thickness, and is cut into discs $\frac{1}{2}$ in. in diameter. Thirty "Parvos" should weight $\frac{1}{2}$ oz. when dry. The taste of the podophyllin is covered by mixing with benzoin, liquorice, and an essential oil (clove, peppermint, &c.). Combination with taraxacum is also provided for by the patent. "Parvos," may be eaten as sweetmeats, and it is this feature which the inventor puts as his first claim, covering the taste of the podophyllin coming in second.

Vaseline for Extracts.

Mr. P. A. Newton, on behalf of the American Enfleurage Company now gives full particulars of improvements in the manufacture of medical extracts. No. 8,541, 1891, provides for the use of vaseline, and substances like it for extracting the active medicinal principles of vegetable substances, such as cloves, coca, cinchona, arnica, and many other odorous and medicinal vegetable substances.

Remoulded Rhubarb.

Mr. A. Bartholf has devised "a method (No. 4,555, 1891) of utilising waste chips and dust of rhubarb-root." According to the specification the waste is ground, mixed with an adhesive material, preferably gum arabic, and shaped like the root, or any other desired form, while moist.

A Veterinary Ointment.

Messrs. W. B. Bishop and A. Bishop's "veterinary ointment for sanitary, disinfecting and cleansing purposes and for destroying fungoid growths" is to be protected by patent No. 7,825, 1891, the specification stating that it is made as follows :—

Chalk	12½ lbs.
Soft soap	5 „
Water	5 qts.

Heat to the boiling-point and add—

Chlorinated lime	10 oz.
Water	2½ pints

Boil until pasty and add—

Creolin	5 oz.
Friar's balsam	10 „

The ointment may also be used, when mixed with water, for laundry purposes and as a garden insecticide.

Bath tablet.

Dr. Ernst Sandow proposes, No. 16,422, 1891, to make a bath-tablet by melting bisulphate of soda and ferrous sulphate together and pouring into moulds. Bicarbonate of soda is to be put into the bath-water then a tablet, whereby an agreeable effervescence of carbonic-acid gas takes place.

FEMALE DENTISTS IN SWEDEN.—In Stockholm a scholarship has been instituted expressly for female students who intend to study dentistry. It has just been awarded to Miss Elena Levin, who recently qualified at the Gothenburg School of Dentistry.

English Pharmacies Abroad.

BOULOGNE-SUR-MER.

This popular watering-place on the Northern coast of France is probably familiar to as many, if not to more, Britishers as Paris itself. It has not only a large resident English population, but, being about the most easily accessible place on the Continent, it has become so familar an objective of the gay but time- and resource-limited excursionist that a "Saturday-to-Monday-at-Boulogne accent" has almost becomes the modern speech-equivalent for the classic "French of Stratford-atte-Bowe." It was, therefore, quite in concert with the harmony of things that the first English continental pharmacy outside Paris should strike root in Boulogne's congenial soil. And so it did. Its originator was the late Mr. William Abraham, of Bath, who settled at Boulogne in the year 1836. That gentleman, after an apprenticeship in pharmacy at Bath, and a course of lectures at the Sorbonne in Paris, took his degree diploma in 1835—the first among the English winning the French degree in that decade.

Mr. Abraham successfully conducted the pharmacy for nearly fifty years, and at his death it passed to the present

proprietor, Mr. J. V. Parsons, Pharmacien of the Faculty of Lille.

During the half-century of its existence it has been the resort of many eminent representatives of the profession, among whom its founder was held in a deservedly high esteem. The present proprietor rearranged the pharmacy, which now presents the aspects of a high-class West-end establishment, embellished with certain characteristic touches of French art. From its doorstep of white marble, with "Pharmacie" in black lettering, to the soft glow of electricity used in its lighting, it is distinctively modern in appearance. The floor is of marble, the ceiling is painted in fresco, and the tawny tones of the fittings harmonise with the remainder.

The resident English physicians use the pharmacy for dispensing; and the large English community find here the latest and best requisites for family use. The competition of French chemists does not count for much, as the old reputation of the house has been well sustained during ten years by the present proprietor.

Dispensing charges are fairly remunerative, and there is no "cutting"; for a 6-oz. mixture the price is 1f. 80c.; for 8-oz., 2f. Proprietary goods are in excellent demand, although the excessive Customs duties bring up the price of articles at 1*s.* 1½*d.* and 2*s.* 9*d.* to 1*s.* 6*d.* and 3*s.* 4*d.* respectively.

Mr. Parsons' business has been created by sheer industry and perseverance, guided by a large amount of professional acumen and skill, and has held its own through many difficulties.

PAU.

Modern pharmacy in Pau differs very materially from the days of twenty-five years ago, when some English families who came down by diligence or private carriage, with a few Russians, were almost the only visitors. Pau is now quite a fashionable holiday-resort, in which the American element tends to predominate.

Mr. John Jarvis, Ph.D., of 20 Rue Serviez, is one of the principal chemists in Pau, and his shop is specially resorted

MR JARVIS'S PHARMACY IN PAU.

to by English-speaking customers. Very few simples are sold, but patent medicines are much in vogue, and of these the pharmacien has to keep an extensive assortment. Permission to import foreign patents being obtained with difficulty, their sale is somewhat limited, and it is necessary for him to make his own proprietary articles. Mr Jarvis's relations with medical men are on an excellent footing, but much prudence is required on his part not to interfere with their practice, prescribing by a pharmacien being illegal.

To carry on business in Pau a knowledge of English, French, and Spanish is necessary, while acquaintance with German, Basque, and Bearnais is a decided advantage. Most of the country-people now speak some French, though Bearnais is the real language of the country districts.

Owing to cutting *confrères*, London co-operative stores, and parcel post, less retail selling is done now than formerly, but more dispensing, which is of a very varied nature, requiring an acquaintance with British, American, and continental Pharmacopœias. Three very sore subjects agitate the pharmaceutical world in Pau—the medical provident societies, the supply of medicines by the town hospital, and the prescribing of specialities by medical men. The latter practice is perhaps more ruinous to the doctors themselves and their patients than to the pharmacien, who is almost tempted to think that some of the doctors are unacquainted with the elements of materia medica.

The Pau Season.

The Pau season has dwindled down from eight to about three months, but there are some English resident families and invalids who remain in the town or its neighbourhood all the year, going to one of the mountain resorts for two or three months in the summer.

The strain upon the brain and the nervous system is very much greater in Pau than in England, but the climate is excellent. There are neither fogs nor east winds. Invalids suffering from asthma, consumption, bronchitis, heart-complaint, certain forms of rheumatism, and neuralgia find almost sure relief, and many are cured. Analysis and embalming are performed by the pharmacien.

It is necessary for the pharmacien to be well versed in general knowledge, as visitors naturally come to the chemist for information.

Pau possesses the best golf-ground in the world, with the exception of St. Andrews. Other amusements are fox-hunting, polo, cricket, lawn tennis, &c.

Business hours in pharmacy are from 8 A.M. to 9 P.M., but one of the staff remains for the night service.

Mr. Jarvis was the first Englishman to pass the French examinations at Bordeaux in 1872, previous to which he had lived nine years in England and six years in France as apprentice, assistant, and manager. He served in the ambulance service (international), both in France and Germany, during the Franco-German war, and for this he received honourable mention. Mr. Jarvis thinks that, considering the time necessary to qualify, the expense of doing so, and the large capital required to start business in France, a young fellow has a better chance of success in England; but he would advise young men when qualified in England to see something of continental business before starting on their own account. He attributes much of his own success to the thorough apprenticeship he himself has had.

BIARRITZ.

Thirty years ago, Biarritz, a pleasant city in the sunny south-western corner of France, was a village of about 2,000 or 3,000 inhabitants; since then it has grown into a fine town with a resident population of between 8,000 and 10,000, and an influx, during the season—that is, from November to May—of over 22,000 strangers, of whom one-third are foreigners, Great Britain and Spain furnishing about 3,000 visitors each, and Russia 1,000. There is one pharmacy in Biarritz which may justly claim a place among the "English" businesses on the Continent, for its proprietor, though a Frenchman, passed his examination as a "pharmaceutical chemist" in London as long ago as 1866, being, as he proudly observes, the first Frenchman whose name was inscribed upon the register of the Pharmaceutical Society, if not the only member of that nationality found upon it. M. Moussempé is also, of course, a French pharmacien, and he possesses the further distinction of being a member of the Madrid College of Pharmacy. He started the business which he still directs in 1867, giving it the name of "the London Dispensary"—*Gallicé*, "Pharmacie Ste. Eugénie." M. Moussempé has arranged his pharmacy entirely in the English style, and he keeps a large stock of English drugs, sundries, patents, and perfumery goods, while two English assistants minister to the pharmaceutical wants of their countrymen.

Unfair Competition.

The large number of British residents who come to Biarritz to rid their systems of the multifarious complaints engendered by the climate and mode of living in their native isle, are regarded by the local pharmaciens as customers whose good will it is most important to secure. This is the principal reason why at least three of them, besides M. Moussempé, keep British assistants and style themselves "English

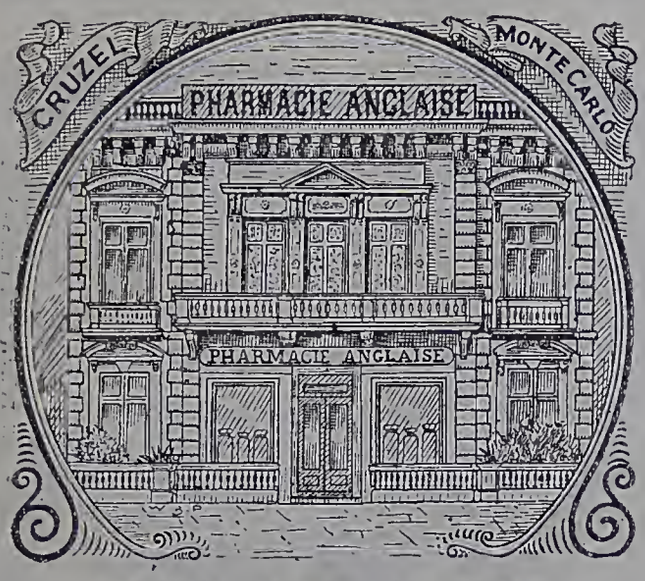
chemists." M. Moussempé is exceedingly wroth at what he terms this unprofessional competition of his fellow-pharmacists. French pharmaciens they may—indeed, must—be; but English chemists, never. M. Moussempé claims to be the only French chemist in Biarritz properly qualified by examination in England, and therefore entitled, in equity, to sport the arms of the Society. We are afraid, however, that unless M. Moussempé can bring successful moral suasion to bear upon his competitors he will have to put up with the injustice.

When M. Moussempé started business on his own account two or three English families only were living in Biarritz, and there were no indications whatever of the importance to which, within two decades, the town would rise as a holiday-resort. It therefore argues well for our friend's foresight that he should have taken the trouble to qualify as a pharmacist in London, and to set up boldly as an "English chemist" in patient anticipation of the day when the tide of British holiday-makers would begin to touch the neglected shores of the Bay of Biscay. Napoleon III. (whose Empress had strong feelings of liking for her native Spain, and loved to be near its borders) had a chateau at Biarritz, and most of the crowned heads of Europe have of late sojourned in the pleasant city. M. Moussempé tells us that he himself in the beginning of this year sold an estate in Biarritz which had cost its late owner, the sister of the ex-Queen Natalie of Servia, two millions of francs.

MONACO.

The English pharmacy in Monaco is owned by M. L. Cruzel and managed by Mr. H. S. Naftel. The shop is a large one, with a pleasant balcony in front, where the customers can take a sun-bath whilst waiting for medicine. Inside the shop is fitted in the usual style of a French pharmacie, the bottles being in glass casings, while counters, desks, shelves, &c., are all in black and gold. Everything is kept very clean—in fact, many English customers have said that they have never seen a nicer fitted and cleaner pharmacy in England. Counters occupy three sides of the shop. Upon entering, the "English department" is at the right, the French at the left side, each department being distinctly separate. There are four French and three English assistants, who are occupied principally in dispensing behind two of the three counters. The average of new prescriptions through the season is forty daily. M. Cruzel occupies a private office adjoining the pharmacy, where he passes his time in attending to correspondence. He also assists at the

counter-work in busy times. Behind thepharmacy is a long corridor, leading to the manager's private apartments, to the laboratory, and to the stock-room, used also for the preparation of specialities, of tooth-powders, &c. Here also is kept a most complete stock of chemicals for use in analytical or dispensing work, and a gasometer containing 200 litres of oxygen, which in the season is emptied by the French clients about twice a week. The corridor is occupied for storing surgical dressings, and it also contains a set of drawers, 150 in number, all labelled and containing the usnal medicinal herbs so much in favour with French people. The laboratory is complete with every requisite,



THE PHARMACIE ANGLAISE IN MONACO.

and a picture of cleanliness and order, large and very high. The principal object in it is a steam apparatus bought in Germany, which produces distilled water all day long for use in pharmaceutical work. M. Cruzel makes his own extracts, snch as belladonna, hyoscyamus, rhubarb, &c., and at the same time distils aq. menth., aq. sambuc., rosæ, &c. The shop is well stocked with good percolators and presses for tincture-making. The whole basement is occupied with store-rooms, such as patent-medicine room, bottle-room, drug-room, and a large room solely for making wine, a very interesting work to a new English assistant.

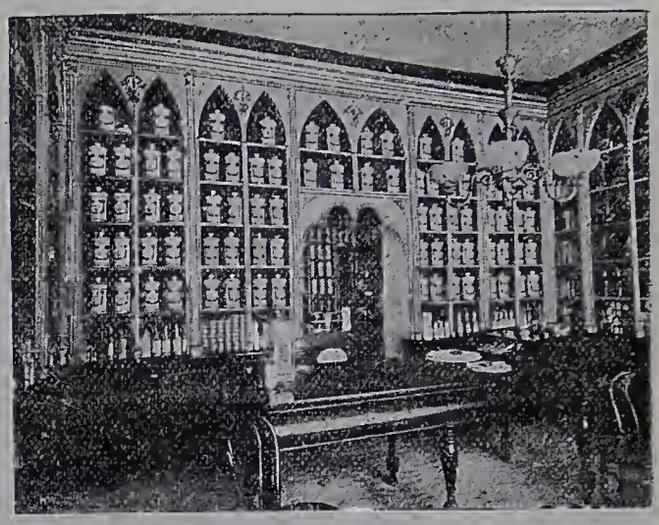
British Business Relations.

Behind the pharmacie is a large room containing mills for grinding linseed and mustard, and one man spends all his time in keeping the assistants constantly supplied with these drugs freshly crushed. A tower at the back of the pharmacy is occupied for drying purposes, the sun being the drying agent. There are British, American, French, Italian, German, and Dutch Pharmacopœias in the shop. Many Russian prescriptions are handed in for dispensing. M. Cruzel deals with four London honses only—viz, Evans, Lescher & Webb, Maw, Son & Thompson, Burroughs, Wellcome & Co., and Silverlock. The prices charged are as nearly as possible the same as in London (not store prices). For patents the charges are:—Eno's Fruit Salt, 4f.; Cockle's Pills and Beecham's Pills, 2f.; Condy's Fluid, 2½f. (2*s*.) Every season about four gross of Brand's Essence and about one gross of Valentine's Beef Juice are sold. The climate of Monaco is as pleasant a one as could be wished; the work in the pharmacy is varied and interesting in character, and the duties of one of M. Cruzel's staff are not heavier than those of the average assistant in a London business. Complete harmony prevails between the English and French members of the staff, and M. Cruzel himself is very popular with all his employés. The illustration of M. Cruzel's shcp is from a photo by Mr. T. Coulson, one of the English assistants.

MADRID.

"My shop," says Mr. Villegas, in answer to our inquiry, "is an old one, dating from a period anterior to the year 1745. This date I take from the inscription upon an old brass mortar which was made for my predecessors in the business, and has been upon the premises ever since that date. At that time most of the chemist shops in Spain were the property of religious institutions, and this house, No. 18 Plaza del Angel, in which my pharmacy is situated then stood within the walls of the Convent of Buen Suceso. At a later date the Royal Hospital, retaining the name of Buen Suceso, was established within this convent and upon these very premises, and on this acconnt I am still allowed the privilege of using the arms of the Crown of Spain.

"At the beginning of the century, dnring the wars of Napoleon, the shop passed into private hands, eventually



INTERIOR OF VILLEGAS' PHARMACY IN MADRID.

coming into my possession in the year 1884, when, having many friends among the English residents in Spain, and some knowledge of the language, I gave it the name of the English pharmacy in addition to the old name of Buen Suceso, which I need hardly say is the Spanish eqnivalent for "good luck." I have frequently seen mention made of old chemists' jars and other ntensils in The Chemist and Druggist, and I may therefore be excused for saying that my shop is particnlarly rich in such relics, as I have upon my shelves some 200 blue and white jars bearing an heraldic service surmounted by a Cardinal's hat, which is evidence of their having belonged to a religious institution; and two

MONASTIC AND INQUISITION JARS.

others bearing the arms of the inquisition, a cross, an olive-branch and a sword supported by the double headed eagle of the House of Austria, and surmounted by the Royal crown. The jars are all of the uniform height of one foot.

"The English colony is not a large one, but with the help

of the Americans, also but few in number, I manage to do a fair amount of business with English-speaking people; the more so as there is not any English medical practitioner resident here; so that I am constantly appealed to by English and Americans to translate the instructions written on their prescriptions by Spanish doctors. The chief articles demanded by those English who do not consult the Spanish medical men are Eno's fruit salt, Seabury and Johnson's plasters, Pears' soap, Beecham's pills, St. Jacobs oil, Scott's emulsion of cod-liver oil, Allcock's porous plasters, chlorodyne, hazeline (Burroughs), quinine pills, ipecacuanha wine, paregoric elixir, &c."

MADEIRA.

The "Pharmacia Luso-Britannica" (Anglo-Portuguese Pharmacy) was established in Funchal, Madeira, in 1876. It is the largest chemist's shop, or, as the Portuguese call it, "botica," in the island. The proprietor of the business is Senhor J. G. de Freitas, a Portuguese, who is assisted by three qualified dispensers, one of whom is always an Englishman. Besides these, there are one or two unqualified assistants, an office clerk, porters, and messengers.

The establishment consists of a large front public dispensary, two well-fitted laboratories, an office, and six large store-rooms, besides minor offices.

All the usual preparations of the English, Portuguese, French, and German Pharmacopœias are kept in stock, and it might puzzle the most advanced pharmacist fresh from the

SENHOR DE FREITAS AT HIS SHOP DOOR.

Metropolis to name a new drug or proprietary medicine that could not at call be produced from the store-room of the Anglo-Portuguese Pharmacy. That a city like Funchal, with a population, including the suburbs, of 36,000, should be able to maintain five "boticas," all of considerable size, might seem to imply much disease. But, as a matter of fact, the public health is good and mortality low. Funchal is the only town in Madeira, the other places being small hamlets, the tiniest of villages according to English conception. The population of the entire island, including Funchal, is about 140,000, and all drugs are supplied from Funchal.

The Portuguese are great believers in the efficacy of medicines in large quantities, and the drugs of the Portuguese Pharmacopœia are, on the whole, stronger than the corresponding English preparations. Usually the Portuguese mixtures are put up in 20-oz. bottles (*i.e.*, ordinary-sized wine-bottles), and doses, too, are large, grs. xv. of hydrarg. subchlor. or a blister measuring 6 by 8 inches not being at all extraordinary.

Dispensing for the English residents is on the same lines as at home, and the charges, as compared with English prices, are about the same as those of a first-class London pharmacy; the Liverpool and Manchester Chemists' Association books of retail prices are usually taken as a standard. The average daily number of new prescriptions presented at Senhor de Freitas' pharmacy in 1891 was forty-six, but during the month of January of the present year the number has, on several occasions, reached 100 daily. It is a common belief that a kind of diarrhœa is endemic in Funchal, but the

SIESTA ON THE GARDEN TERRACE.

books of prescriptions of the local pharmacists would speedily disprove this. Typhoid fever, too, though not uncommon amongst the badly-housed native population, is not at all frequent with the foreign residents, amongst whom hardly one case a year occurs on an average, while deaths from this cause are very rare. Influenza has visited the island twice. If uncomplicated it usually lasts from twenty-four to forty-eight hours; but in Madeira, as elsewhere, it has a singularly unpleasant way of exacerating any existing disease, especially kidney-affection. This circumstance has caused influenza to be felt very severely in the island, which is a special and valued refuge for sufferers from renal troubles. Other zymotic fevers are practically unknown or quite sporadic, epidemics being very rare indeed.

Phthisis is almost unknown amongst the well-to-do Portuguese, but not unfrequently attacks the poorer classes. Among the foreign residents and merchants, most of whom were attracted to Madeira because of some chest-affection, or whose ancestors settled there for the same reason, the disease is now almost extinct, only one death having occurred in the last six years amongst Madeira-born

foreign residents. Such a result is mainly due to the purity of the air, which contains no dust, the pure spring-water, and the open-air life which everyone lives in the sunny island. An important factor in the health-giving properties of Madeira is the hammock; a bed-ridden invalid can here take a daily airing without fatigue or liability to harm in this luxurious conveyance. The medical profession in Funchal is represented by twenty-four Portuguese, many of whom possess foreign qualifications, one German, one Swiss, and two English physicians—viz., Dr. F. J. Hicks, and Dr. M. Grabham. Just now the fashion is to decry Madeira and to compare it disadvantageously with other health-resorts. Nevertheless, its lovely climate, scenery, pure air and water remain the same as ever, while the facilities for reaching it are all that could be desired. Its hotels will compare on equal terms with those of any foreign health-resort, and cannot be surpassed in sanitary arrangements.

INTERIOR OF THE PHARMACIA LUSO BRITANNICA.

OPORTO.

The city of Oporto, the principal trading centre of Portugal, has also the largest British colony, its foreign business being almost wholly in English hands. There is no pharmacy in Oporto owned by a British-born subject, but Senhor Figueredo, 123 Rua de Cedofeita, is the Portuguese pharmacist who claims to have the largest number of customers among our countrymen in the city. He is good enough to say that the British are without doubt the best class of his customers "by reason of the promptitude and honourability with which they pay their accounts." They are doctored by Portuguese physicians in their need, but they preserve their faith in the medicaments of their kith and kin, and hence the demand for British specialities is always great. The Portuguese themselves, too, have a very high opinion of the value of British pharmaceutical goods, and the local druggists know it, and have a trick of raising their prices for goods simply on account of their being English—thus (says Mr. Figueredo) where an English and a French or German article cost the same, or even where the initial price of the English article is the lower, your average Portuguese retailer invariably raises the British goods to retail at a higher figure than the continental ones, on account of their nationality. The trick—though one would think it would wear bare quickly—seems mostly to succeed with the guileless Lusitanians. Sulphate of quinine, for instance, "para ser bom deve ser inglez," to be any good must be English—that is, continues our informant, either Howards' or "Burgoyne's"—and may not cost less than from 40*s.* to 50*s.* per oz. (shade of the penny-quinine man!), the best chloroform must bear the Duncan or "Burgoyne" label, in cod-liver oil Evans's goods lead the way, and so on.

Unfortunately, against this bright, balsamic sky of English cod-liver oil and chloroform there rises at the horizon the black cloud of French "and even German" competition. Gradually the Portuguese druggists are becoming accustomed to non-English goods. French and German houses give longer credit than English, and they take a vast deal more trouble to please their customers by quoting goods in Portuguese currency and weights, and by corresponding with their clients in the native language. One English firm, however, is an exception to the rule. This house sends travellers to Portugal regularly, and forwards price-lists every month in the Portuguese language.

NOTE ON OIL OF EUCALYPTUS.

By W. Lloyd Williams, A.I.C.

THE law of "compensation," by which two substances possessing laveo- and dextro-rotatory activities respectively upon a ray of polarised light may when mixed neutralise each other and give rise to a solution which is apparently inactive to polarised light, is well known to physicists and chemists. Dr. Armstrong incidentally alluded to it in his concluding remarks on fermentation, and gave as the example the so-called inactive tartaric acid which is invariably selected as the classical illustration.

A much more homely illustration of the principle of compensation having recently come under my own observation, the present would seem an appropriate occasion for recording the same. In the course of an examination of a number of samples of eucalyptus oil one specimen was found in which no deviation in the polarised ray was noticeable after traversing 200 mm. of the oil. It was thought at first that possibly a sample of eucalyptol had been submitted in lieu of a specimen of oil, but further examination speedily showed that this was not the case, and 150 c c. were fractionated in the usual way. Upon examining these fractions, they were found to possess rotatory power in accordance with the following table:—

No. of Fraction	Range of B.P.	C.c. Collected	Observed rotation D ray in 200-mm. tube
1	Below 170° C.	12	+ 12°
2	170°–172° C.	21	+ 6°
3	172°–174° C.	29	Not determined (lost)
4	174°–179° C.	55	± 0
5	179°–182° C.	12	− 6°
6	182°–184° C.	9	− 10°
7	Residue	12	Not determined

Eucalyptol itself is inactive, and the gradual diminution in optical activity as we approach the fraction (No. 4) containing that constituent, and the equally gradual augmentation as we proceed beyond it, are striking and instructive.

The apparent incompetence of the oil to twist the ray was a consequence of the union of oppositely-rotating constituents in equally-balanced proportions.

There is no reason to suppose that the oil had been tampered with; it had a deeper saffron tint than any of the other samples I was examining, and the fractions had a greenish tinge; but the odour was good, and the yield of eucalyptol by no means low, as the fraction No. 4 solidified completely when placed in a mixture of ice and salt.

The sp. gr. of the oil at 18·3° C. (65° F.) was ·925, and the observed rotations were taken at the same temperature—that of the laboratory. The polarimeter is by Field, of Birmingham, on Laurent's principle. The experiments were conducted in Messrs. Burroughs, Wellcome & Co.'s Laboratories at Dartford.

A New Method of Analysing Organic Compounds has been designed by M. Berthelot, who, abolishing the dirty and troublesome cupric oxide, burns the material in oxygen compressed to twenty-five atmospheres. The combustion thus effected is said to be total and instantaneous; and the percentage of carbon can be ascertained with much greater precision and despatch.

A Hint on Infant-feeding.—Dr. Eustace Smith's method of diluting milk with barley-water does not appear to be as well known as it deserves. The barley-water is made by steeping two tablespoonfuls of pearl barley in a quart of water for seven hours, then pouring off the liquor and bringing to the boil. This makes an admirable diluent for condensed milk, preventing curdling of the milk, and diminishing or curing vomiting, while it also keeps the bowels regular, and, unlike lime-water, does not constipate—rather the opposite.

APERIENTS AND LAXATIVES.

The following notes have been compiled by the Secretary of the Pharmacopœia Committee of Guy's Hospital:—

	Grain
Aloin	½
Jalapin	½
Gingerin	⅓

Mix for 1 pill.

Dr. T. B. Luscombe says that these pills are "mild in action; small size a great advantage." But they are too dear for hospital practice.

There are numerous witnesses to the value of glycerine for the purpose of rectal injection, the quantity required being 1 or 2 fluid drachms. This enema is particularly recommended in typhoid fever, and when it is necessary to give an injection to children. Glycerine suppositories (now official) are stated by Dr. Renel Atkinson to be a "safe, quick, and pleasant method of inducing an action of the bowels in babies and children." There is a method of treatment "in some forms of intestinal obstruction, when it is desired to distend the bowels." This Dr. Bunting recommends, and it is an "enema of carbonic acid in water by connecting a well-charged syphon with the enema-pipe."

Dr. W. C. Lacey remarks of the following pill that it is "most useful in chronic constipation, given every or every other night for a time":—

	Grains
Sulphate of iron	2
Extract of nux vomica	½
Extract of Socotrine aloes	1
Capsicum in powder	½

Mix for 1 pill.

Another formula which is given is:—

	Grains
Dried sulphate of iron	2½
Socotrine aloes	½
Extract of belladonna	1
Extract of nux vomica	¼

Mix for 1 pill.

Dose: 1 pill three times a day after meals; reduce to 2, and then to 1, when necessary.

As "dinner-pills" the following are recommended by Dr. Nevins, whose comment is:—"Produces a simple, soft, natural motion, and strengthens both the appetite and the digestion, and also peristaltic action in cases of sluggish bowels arising from want of appetite and expulsive power."

	Grains
Purified ox-bile	2
Extract of Barbadoes aloes	1
Rhubarb in powder	1
Extract of nux vomica	½

Mix for 1 pill.

Dose: 1 pill to be taken daily for a few days before a midday meal.

Dr. Lacey says the following is "stomachic and laxative a good dinner-pill":—

	Grain
Pepsin	1
Extract of rhubarb	½
Extract of Socotrine aloes	½
Powdered capsicum	½
Canella-bark in powder	1
Extract of gentian	1

Mix for 1 pill.

The last one is given by Dr. J. Davies "for chronic or habitual constipation in elderly people":—

	Grains
Extract of Socotrine aloes	2
Extract of hyoscyamus	½
Ginger in powder	½
Extract of dandelion	½
Extract of nux vomica	½

Mix for 1 pill.

Dose: 1 before dinner daily.

HOW NEW YORK HOSPITALS GET THEIR DRUGS.

THE *American Druggist* of February 15 contains some handsome illustrations of the pharmaceutical laboratories of the Department of Public Charities and Correction. This department supplies all the charitable hospitals under its charge, as well as the hospitals in connection with workhouses, prisons, &c., and public dispensaries, with medical and surgical necessaries. The "General Drug Department," as this section of the organisation is called, is housed in a building on the grounds of the Bellvue Hospital. The illustrations which our contemporary gives show that the arrangements for manufacturing galenical preparations are of modern kind, and the director of the laboratories has a nicely-fitted private laboratory for experimental purposes. The chief position here is occupied by Dr. Charles Rice. Far more interesting than any laboratory details, however, is the institution as a whole. Our contemporary remarks that it "is probably unique in character as related to municipal corporations of the United States. It is the outgrowth, during more than twenty years, of the needs of large and diverse asylums for the care of the sick, poor, and perverse of a great city, and furnishes a most interesting example of the means for insuring a wise economy without parsimony in the supply of medicines and surgical appliances; for insuring as high a grade of excellence as possible in such supplies, and providing for a quick response to such demands as are liable to occur in cases of emergency." The way in which the drug department supplies the institutions under its care is as follows:—Every fortnight each institution sends in its request for supplies. The requests contain lists, with specified quantities, of every article estimated to be required during the ensuing two weeks, the quantities being based on the amounts actually consumed during the preceding fortnight, special explanations being given for any variations in kind or amount on the new requisition. These documents are carefully examined and passed upon, provisionally, by the head of the drug department (Dr. Rice), and are then submitted to the Board of Commissioners for action. At the same time Dr. Rice submits general requisitions for such supplies as are required. After these requisitions are approved, their cost having previously been ascertained, the supplies are purchased (or ordered from contractors, as the case may be) by the purchasing agent of the department. At the end of each month, bills are sent to each institution, on which every item delivered is charged at cost, which bills (if correct, or when corrected) are returned, signed by the head of the institution, to the General Drug Department. Each and every item received by or supplied from the latter can thus at any time be accounted for.

Apart from the regular fortnightly requisitions received from each institution, there are received daily many special requisitions for articles suddenly exhausted and urgently needed, for which reason a sufficient stock of all regular hospital supplies must be kept on hand. In addition to distributing medical supplies the department manufactures most of the pharmacopœial preparations, as well as those chemicals which can be economically produced, while Dr. Rice is also charged with the inspection and analysis of various technical and food products, urinary analysis and the like. The writer of the article gives some most interesting statistics regarding the use of medicines. These cover a period of twenty years, and show in regard to the cinchona alkaloids that 1,150 oz. of quinine sulphate were used in 1871, also cinchonine sulphate to the extent of 2,176 oz. Between the two about 3,500 oz. were used annually up to 1875, when quinine began to reach a prohibitive figure; in that year only 500 oz. of quinine were used, in the three years following none at all, then 10 oz. in 1879, none in 1880, 10 oz. in 1881, and 37 oz. in 1882, when the price ruled about 8*s*. The same price ruled in 1883, but 1,875 oz. of the sulphate were used by the department in that year, and, strange to say, the use of unbleached quinine (introduced with the decline of quinine in 1875) ceased, and none has since been bought. About 1,500 oz. of it per year were used for eight years. A little quinidine was used before 1878, but in that year a sudden jump to 415 oz. took place; three times as much cinchonidine sulphate was then used, and four times as much cinchonine. Quinidine dropped out with 1888, and cinchonine a year before. Of what remains, the quantities used in 1891 were: Quinine 3,200 oz.; cinchonidine, 480 oz. Of other antipyretics, the figures in regard to antipyrin, acetanilide, and phenacetin are instructive. The years 1888–9 were the maximum for the first: 1,500 oz. each year, now 600 oz. Acetanilide began in 1887, and 400 oz. was used; now 240 oz. suffices. Phenacetin began a year later; only 40 oz. was used, but the increase since has been steady—viz., 275 oz. in 1889, 725 oz. in 1890, and 1,205 oz. in 1891. Hypnotics show fluctuation in regard to the newer things: opium and morphia are steady, and potassium bromide shows an uninterrupted decline for ten years back; but chloral fluctuates considerably, and of all the synthetic sedatives sulphonal easily beats the lot, for it shows 850 oz. in 1891 as compared with 145 oz. of chloralamide and 160 oz. of somnal—the only respectable figures. Of hyoscyamine 207 grains is put down as the present consumption, and it is on the increase. Surgical dressings show figures very much in favour of carbolic acid, but the consumption of corrosive sublimate has increased seventy times in ten years, while iodoform has a most formidable rival in aristol. Still, the latter is a far way behind—500 oz. to 530 lbs. of the former. Originally more chloroform than ether was used, but that is no longer the case: ether has steadily increased during the twenty years, sometimes beating chloroform and sometimes falling behind; but since 1884 it has gone ahead, so that in 1891 1,460 lbs. of ether were used and only 825 lbs. of chloroform. The department appears to handle large quantities of drugs of all kinds, but the article gives no indication of the cost.

A REMINISCENCE OF THE GRIP.

A HEAVILY-BUILT MAN, wearing a grey ulster and a slouch hat, walked into a Harlem drug-store last Saturday evening and remarked: "Do you handle plasters?" "Yes, sir, we carry a fine line this season," answered the clerk. "I want a plaster 6 feet by 4." "A what?" gasped the astonished pill-maker. The man in the ulster took a flyer at the nearest cuspidor, leaned on the toothbrush-case, and said: "Young man, I've got the grip. I ache in every square inch of my body. My hair aches, my teeth ache. I want a plaster as big as a bed-quilt, and when I'm wrapped up and tucked in, I reckon me or the grip will get drawn out. Are you with me?" "We only carry plasters in regular sizes," said the clerk apprehensively. "What are they?" "Well, about 7 inches by 10." "Reckon you're thinking of postage stamps." "No, plasters." "Court plasters, perhaps," suggested the customer incredulously. "Certainly not," said the clerk. "Take me for an idiot, don't you?" inquired the other angrily. "Perhaps you think a sick man like me can spend time coverin' his shape with gummed labels and election posters. Young man, I don't want no jokes, and no foolishness. I mean business." "Sorry, sir; plasters only come in regular sizes." "Peeople buy those 7 × 10?" "Certainly, sir." The man in the ulster took another flyer at the cuspidor and meditated. "There's about 30 square feet on my body," he said at length. "I reckon I need about four dozen plasters, young man. Any reduction on 'em by the dozen?" The clerk retired behind the desk and consulted. "Ten per cent." he said, on reappearing; "but I find we've only got forty-one altogether, including five red-pepper plasters." "Red pepper, hey," said the customer, brightening up; "that sounds like business. I'll take the whole lot, young feller. 'Tain't just the way I expected to do it, and I hate to sit up nights pasting on plasters, but when a man's got the grip there ain't no attention too good for his body. Gimme the box.'—*Detroit Free Press.*

PRESCRIBING AND ADVERTISING OPTICIANS are becoming a nuisance in London (says the *Medical Press*), and will soon require to be looked after by the Medical Defence Union. What next?

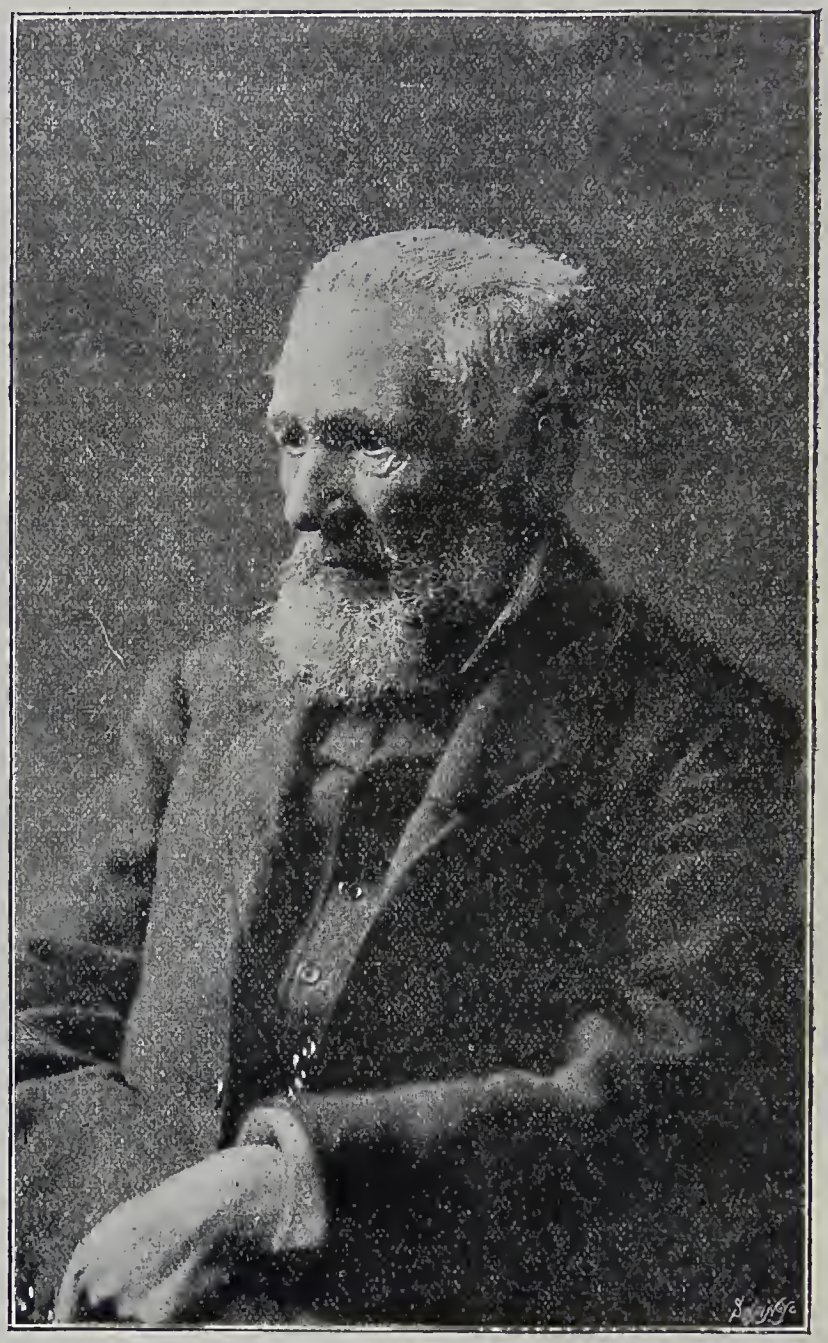
PNEUMONIA.—Observations by Tikl and Petresco seem to indicate that in digitalis we have a most valuable remedy for the successful treatment of pneumonia. The drug is given in large doses (45 grains in the course of a day) in the form of a fresh infusion.

Emeritus Professor Redwood.

On Saturday, the 12th inst., the remains of the late Dr. Redwood were laid to rest in the parish churchyard of Llantwit Major, Glamorganshire, by the side of his late wife. The last solemn rites of the Church were performed by the aged vicar, the Rev. E. W. Vaughan, who wished thus to pay a tribute to the memory of a friendship extending over half a century, and many beautiful wreaths and other floral emblems were sent from all parts as farewell tokens of regard and esteem.

Owing to the expressed wish of the family that the funeral should be as private as possible, the cortège consisted merely of near relatives of the deceased and his tenants and employés, who bore the coffin from the church, where a large concourse had assembled to pay their last marks of respect to one who was universally loved and esteemed, and the evidences of grief displayed on every side showed the extent to which the late professor had endeared himself to all classes.

By his poorer neighbours in the locality, which knew him best in private life, his departure from amongst them will be long and severely felt, for they have lost in him, not only a kind and worthy counsellor, but one whose continued acts of charity were of that true nature which letteth not the left hand know what the right hand giveth, and he leaves behind him the undying record of a well-spent life.



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A large part of the last few years of his life was spent by Professor Redwood, as was stated last week, at Boverton. He was continually having work done on his estate there—not so much because improvements were necessary, but because he desired to give employment to his poorer neighbours. He had a comfortable little hut built for the workmen employed to take their meals in; and in many similar ways he showed his interest in their welfare.

To the end his mind retained its usual clearness and vigour; the same kind thoughtfulness for the comfort of others which had throughout been so characteristic of his nature was noticeable to the last, and he quietly passed away in the chamber in which, more than eighty-six years previously, his eyes had first opened upon this world.

One of his last utterances may be quoted as showing how, amid much personal suffering, he was still anxious for the comfort of those around him. The doctor, an old friend and relative, had been staying in the house all night, and in the morning had gone downstairs to breakfast, and after breakfast, in accordance with his usual habit, had had a pipe in the garden. When he returned to the bedside his old patient looked at him reproachfully and said, "Now, you can't have had time to have your pipe this morning." This was only a few hours before the end.

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He knew every inch of the country for miles round Boverton, and was an authority on the history of the locality for the past thousand years or so. He had a water-supply brought from the nearest town to Boverton at his own expense, in order to save the villagers the trouble of drawing from a well, and in the neighbouring town of Llantwit Major he had a shelter erected within view of the sea, and provided it with a large filter and drinking-fountain.

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Dr. Redwood was curiously exact in the choice of language to express his ideas even when engaged in some of his warmest Pharmacopœia discussions; but his written letters, or articles, or reports, were, if possible, even more perfectly studied. He seldom wrote the simplest letter without first drafting it in pencil, and he has, no doubt, left behind him many volumes of the black memorandum-books, familiar to his acquaintances, containing these drafts. He was a light sleeper, and a large amount of this pencil-work was done in bed as soon as it was light enough to see.

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"When I shall see Boverton again, or whether ever, is greatly uncertain, but that I should forget it or you, while I am in the world, is not very possible. Nay, it is a real and continued possession to me, though I never see it more." One almost recognises the writer in his style of utterance, for in this, his most characteristic manner, wrote Thomas Carlyle to his friend Charles Redwood in August 1852. Any reminis-

cences of Theophilus Redwood without mention of the associations of his family with the great historian would be incomplete, for one of the most valued possessions of the family is the bundle of letters received by Charles, the attorney, and elder brother of the late Emeritus Professor, between 1840 and 1852. These letters were the basis of a series of three tolerable articles entitled "Carlyle's Holidays in Wales," contributed by the late Mr. John Thomas to the *Red Dragon* in 1884. Carlyle students should not miss them, for they are the only published records of one of the purest friendships which Carlyle ever had; a friendship not of the high character of that which the Seer had with Emerson, but better in respect to the fact that it was one of affection, homeliness, and mutual sincerity. It was struck at the time when Carlyle gave the first clear indication that he had thoughts of the fermenting discontent of his fellow-citizens. When his essay on "Chartism" appeared in 1839 amongst the first to appreciate his reasoning was Charles Redwood, the Cowbridge attorney. The chord of fellow-feeling was struck at once, and it never ceased to vibrate harmoniously until Charles Redwood's death in 1854. It would be out of place to refer to anything in this friendship which does not bear more or less upon the family of the man whose death pharmacists are lamenting. Albeit the correspondence shows Carlyle at his best and worst, although the latter is often his better best. The Redwood family, says Mr. Thomas, "is one that has special claims from all Welshmen for their kindness in a previous generation to old Iolo Morganwg. They were then a Quaker family." Charles lived in 1840 at Llandough Cottage, "in the hollow of the Welsh mountains, near by the shore of the many-sounding, everlasting sea," and there also lived his venerable Quaker mother. "She was a native of Llantwit Major, descended from a primitive Flemish stock, her maiden name having been 'Holland,' a family which has left many traces of itself on stone and tablet in the neighbourhood." Carlyle paid his first visit here in 1843, and "for three weeks enjoyed himself, probably, as fully and completely as his nature was capable of," Mr. Thomas remarks. The sage himself says, a month later, ". . . the last I have yet seen of rest was at Llandough; blessings on its green trees and solitary knolls; it is the last I am likely to see of that invaluable quality for some time." Seven years were to elapse before the friends met again in Wales, and then Charles Redwood was living in the little hamlet of Boverton. This place was the Boveium, or Boventium, of the Romans, and from the time that our country was a Roman colony it has figured in history. Carlyle was in one of his most wretched conditions when he set his face thither in 1850. It had taken him some weeks to make up his mind to pack and go, but at last he gave Redwood the programme of his departure, telling him to ask his man "to look out for an elderly thin man of your own stature; he will know him by his grim look, sober clothing, grizzled temples, and white hat—the last mark is perhaps the best for his perceptive organs." Nobody knew Carlyle better than himself. His visit did him much good; he rested thoroughly; his host was considerate to a degree—which only a great friendship could have engendered. For we read that "Carlyle seems to have bent his friend's household management to his own sweet will. No meat was served at table during his visit but chicken and mutton, and the hours for their consumption were rigidly fixed by him, he not waiting an instant, even in the absence of his host." The neighbourhood knew him well, and he gathered inspiration while at Boverton which served a good purpose when he came to write his "Life of John Sneling." The bits of word-painting of Welsh scenery which we have there we owe to Charles Redwood. It was a very profitable friendship, especially to Carlyle. Not one of letters merely, but of heart and human sympathy. Those Christmas hampers that came to Cheyne Row from Boverton always brought forth the tender notes which Carlyle could write so well; and in one of the last epistles the valedictory "Adieu, dear Redwood. Do not forget me, nor will I you," shows what the men were to each other. The brother, Theophilus, meanwhile was in London, and missed the communion with the Laird of Craigenputtock.

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Mr. E. J. Millard, F.C.S., sends us the following reminiscence of Professor Redwood as a lecturer:—

As a lecturer, Professor Redwood was distinctly popular amongst his pupils, and I well remember that every morning we greeted him with a round of applause. His spare frame and stooping shoulders made his activity an object of surprise to many. His notes for the lectures were not voluminous and hardly glanced at, but they were always there. He never attempted to repress the amusement which followed an unsuccessful experiment, but joined in it as heartily as anyone. At that time he was assisted by Mr. (now Professor) Dunstan, who gave the lectures on organic chemistry, besides certain other supplementary ones. I believe that as he grew older the lectures got more diffuse, and it is a fact that the end of the session would have been reached long before the end of the syllabus but for the energy of his colleague. Not that his lectures suffered by reason of this; although many of the subjects introduced were hardly pharmaceutical, they were invariably interesting and instructive. As an instance, I may quote the following from my note-book of a lecture on carbon and its allotropic modification, the diamond: "There are two kinds of diamonds used in glass-cutting. One is the 'writing' diamond, when any portion of a diamond will do, as it is only required for its hardness. The 'ploughing' diamond, used by glaziers, must be a portion of one of the edges of a diamond, as the keen edge is required to cut the outer skin of the glass, and then, owing to its wedge-like form, forces the parts asunder."

After lectures it was the practice for students to assemble round the table to examine specimens and ask questions. On one occasion I ventured to demur against the suggestion conveyed in his lecture that wholesale druggists were in the habit of adding oil to the rhubarb when powdering to improve the colour. But the professor stuck to his text, and stated that to this was due the frequent difficulty of mixing compound rhubarb powder with water!*

Many of his practical suggestions were very valuable, and indicated the wide experience he had had in manufacturing, although perhaps on the small scale. Flannel was recommended as the best filtering medium for syrups, ointments, and decoctions; but the action of alkalies on flannel was not lost sight of, and alkaline decoctions, &c., were directed to be filtered through calico or linen.

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The following letter was sent from the School of Pharmacy to the family of the late Emeritus Professor:—

17 Bloomsbury Square, London,
March 7, 1892.

To Boverton Redwood, Esq.,
Boverton, Glamorganshire.

My dear Mr. Redwood,—I am requested to convey to you, and to the other members of your late father's family, the following Resolution:—

"That the staff of the School of Pharmacy of the Pharmaceutical Society of Great Britain desire to record their sense of the great loss sustained by them, by the School, by the Society, and by Pharmacy in the death of their esteemed and honoured colleague, Emeritus Professor Theophilus Redwood, one of the founders of the School, and for nearly half a century its brightest ornament: and they offer to the bereaved family their most earnest and deepest sympathy.

"Ordered: That this Resolution be entered in the staff minutes.

"On behalf of the staff,
"John Attfield, Dean."

I will only add that by your father's death I personally have lost my earliest science-teacher, my trusted co-labourer in the School here and on the Pharmacopœia, and a calm co-worker in many a hard-fought professional encounter. Sometimes we were shoulder to shoulder, sometimes face to face, but his commanding presence, cool good humour, intellectual power, and cyclopædic knowledge of things pharmaceutical ever inspired and cheered me, and excited my warm and lasting respect and admiration.

Yours faithfully,
John Attfield.

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Mr. J. A. Wanklyn sends us the appended note:—

"My first knowledge of the late Dr. Redwood dates so far back as the year 1856, when he held office in the Chemical Society, and I sent to him my first chemical paper. In later years, on the formation of the Society of Public Analysts, he was chosen the first President of the Society, Dr. Hassal and myself being his official colleagues in the capacity of Vice-

* So several Edinburgh pharmacists conclusively proved eight years ago.—Ed. *C. & D.*

Presidents. Dr. Redwood's connection with that Society was abruptly severed under circumstances which reflect great credit upon him. The late Professor Dittmar had been attacked, unjustly as some of us thought, and the meeting of the Society held in Glasgow, where Professor Dittmar was located, having declared in favour of Professor Dittmar, there was a suppression of the facts in the official account published by the Society. Under such circumstances Dr. Redwood resigned."

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Our portrait of Professor Redwood last week was produced very hurriedly, and was not a satisfactory copy of Mr. Van der Weyde's very fine photograph taken only last Christmas. That which accompanies these notes is a correct production of the photograph reduced by one-half.

INSTITUTE OF CHEMISTRY.

AT Burlington House on Friday, March 11, at 5 P.M., the president, Dr. Tilden, took the chair at the adjourned annual meeting. A very considerable gathering greeted him on his entrance, accompanied by two legal-looking supporters.

One Scored by the Opposition.

Dr. Tilden, on rising, explained that the action he took in accepting a motion for the adjournment of the meeting on the last occasion was wrong—because unnecessary. In the meantime the terms of the charter and the apparently variant by-laws had been submitted to legal experts, with the result that counsel in the person of Mr. Cozens-Hardy had pronounced in favour of the view held by the "opposition"—viz., that any member not twelve months in arrear was eligible to vote. This announcement was received with uproarious cheers by the "opposition." Mr. Friswell rose to point out, regardless of the presence of the smiling lawyers and counsel's opinion, that the terms of the charter and by-laws could not be thus reconciled. The President emphasied the fact that he was armed with a legal opinion and should act upon it, and warned those who objected of the probable costly and protracted proceedings involved by contesting the opinion. Mr. David Howard essayed a protest also. Then Mr. Carteighe, for once the bearer of the 'olive' branch, begged the members loyally to support their president, reminding them that he, too, had had his troubles in "definitions," "interpretations," and "rulings," and advising co-operation. The President then invited the scrutators to resume their suspended duties, whereupon someone asked what was the position as

A Report of Scrutineers

had been handed in. The President then read the memorandum of inquiry, which was similar to an inquiry from a jury to the judge, and not a report on the voting. Here a question was asked by a member as to the position of a scrutineer who was on the opposition list of nominations. The President ruled that any member could be a scrutineer whether on or off the council, and took the opportunity to say that the only invalid papers were or would be those on which were erased more or less names than were directed. Members had to vote for so many nominated persons or substitutions therefore—no more, no less.

An Interval for——.

The scrutineers, with their assistants, went to work and the meeting was adjourned for 1½ hour till 7.30. The action of the President and the late secretary formed the staple of discussion over "refreshments," and there was much speculation as to the result, and confessedly some concern on the part of the official party. 7.30 came in due course, and those who returned found the lecture-theatre in possession of the Institute of Brewing, which was discussing vocally "Lager beer." The scrutineers had not concluded their task and another hour of speculation was promised. An adjournment to the library was made, and while some utilised the opportunity by reading, others debated warmly the future policy of the malcontents. At 10 P.M. the scrutineers appeared and handed a report to the President, who announced that the official list, with himself at the head, had been carried, viz.:—

President.—W. A. Tilden, D.Sc., F.R.S., &c.

Vice-Presidents.—J. Bell, C.B., Ph.D., D.Sc., F.R.S., &c.; M. Carteighe, F.C.S.; E. Frankland, D.C.L., F.R.S., &c.; Charles E. Groves, F.R.S., &c.; W. Ramsay, Ph.D., F.R.S., &c.; J. Emerson Reynolds, M.D., F.R.S.

Treasurer.—David Howard, F.C.S.

Ordinary Members of Council.—M. A. Adams, F.C.S.; A. H. Allen, F.C.S.; F. Clowes, D.Sc., F.C.S.; A. Dupre, Ph.D., F.R.S., &c.; R. J. Friswell, F.C.S.; A. J. Greenaway, F.C.S.; H. J. Helm, F.C.S.; D. B. Hewitt, M.D., F.C.S., &c.; J. F. Hodges, M.D., F.C.S.; J. Hughes, F.C.S.; E. Kinch, F.C.S.; G. H. Makins, F.C.S.; R. Meldola, F.R.S., &c.; O. Hehner, F.C.S.; H. F. Morley, M.A., D.Sc., F.C.S.; F. J. M. Page, B.Sc., F.C.S., &c.; R. T. Plimpton, Ph.D., F.C.S.; A. Smithells, B.Sc., F.C.S.; J. C. Stevenson, M.P., F.C.S.; C. O'Sullivan, F.C.S.; F. L. Teed, D.Sc., F.C.S.; J. Millar Thomson, F.C.S.; W. Thorp, B.Sc., F.C.S.; T. E. Thorpe, Ph.D., F.R.S., &c.; T. Tyrer, F.C.S.; E. W. Voelcker, Assoc.R.S.M.; C. R. A. Wright, D.Sc., F.R.S.

Mr. Hehner asked gently for the numbers of votes recorded for each name. This appeal was supported by Mr. Cassal. After a little discussion, it was remembered that a similar appeal was made to Dr. Odling when President, with the result that Dr. Odling declined officially to read the numbers, but handed the papers to a member of the opposition. Dr. Tilden adopted precedent, but read the numbers himself. It transpired that there had been a heavy vote by the opposition, with some cross voting. The Treasurer, Mr. David Howard, had the full number (570); the President came close on; Dr. Stevenson, Mr. Tyrer, and one or two others, were nearly the same. Then came lower numbers, till the lowest on the "official" list came within seventeen of the highest on the "opposition" side, and so on with a difference of seventy votes, showing that the organisation of the opposition had been tolerably effectual, and that at any rate the views of that section of the members had extensive support.

The President proposed a vote of thanks to the scrutineers. Mr. Tyrer proposed a vote of thanks to the President for his firmness, tact, and courtesy, which was warmly supported by Messrs. Hehner and Cassal, and carried vociferously.

MANCHESTER CHEMISTS ON PHARMACY LAW.

AT the meeting of the Manchester Pharmaceutical Association held last week Mr. J. Hart, F.C.S., initiated a discussion on pharmacy law. In the paper read Mr. Hart said it would not be necessary to deal fully with the Pharmacy Act, as its provisions were so well known; but he would mention one or two points. After it had been passed twenty years, the Wheeldon case threw additional light upon clause 1—viz., that the actual seller must be qualified. It had, however, been held that it is not necessary for the qualified person to actually hand over the poison, but it must be done under his immediate personal supervision. This clause is, however, set at naught all over the country by managers of branch shops, &c.

Clause 16 also received further elucidation a year or two ago, when it was decided that the terms "patent" and "proprietary" medicines were not synonymous.* Up to the present, however, this decision has availed little or nothing, and this portion of clause 16 might as well be non-existent.

It might, perhaps, be needless to impress upon the trade that one signature would not cover a number of distinct sellers of poison under Schedule A; nevertheless, some have

* Where was this decided?—ED. *C. & D.*

that opinion. Clause 17 says most emphatically "on every sale."

Mr. Hart next complained of the anomaly that such poisons as cyanide of potassium and bichloride of mercury were allowed to be sold by unregistered persons for photographic purposes.

The stamped medicine was a source of endless trouble and annoyance; but he would not go into this question beyond reminding them that a licence is required for each place of business, and not, as formerly, one licence for any number of shops. With regard to labels, his advice was that in the slightest doubt they should either stamp preparations or send two labels to Somerset House for an opinion.

Proprietary articles may be dispensed from unstamped bottles when they form a portion only of a prescription. But when such an article is the sole ingredient, although a prescription be tendered for it, it must pay duty, and should be supplied only in original stamped bottles.

Methylated spirit had lately attracted attention, and the addition of ·3 per cent. coal naphtha had caused some inconvenience. The old kind may be kept and used for preparation of methylated liniments, but permission must be first obtained (this is not always granted), and the spirit must be kept in a separate room, and a distinct entry of that room made by the Inland Revenue officer. This old kind must under no condition be sold. Methylated spirit must not be sold between 10 P.M. Saturday and 8 A.M. Monday. Pure spirit, by the courtesy of the Inland Revenue, may be sold for scientific purposes in quantity up to 8 ounces.

The special requirements of the Arsenic Act, the conditions on which benzine may be kept under the Petroleum Act, the necessity of a licence under the Explosives Act for the sale of gunpowder, fireworks, &c., and a mention of the Weights and Measures Act and the Sale of Food and Drugs Act completed this paper.

Mr. Lane pointed out that in the case of a death by taking chlorodyne, which had recently occurred at Woodford, the jury had expressed in their verdict that it was necessary that greater restrictions should be placed upon the sale of chlorodyne. They (the jury) were informed that Mr. Ernest Hart had the matter in hand, and did not intend to let it rest.

Mr. Wilkinson remarked that the police or any private individual, in the event of being supplied with a poisonous medicine not labelled with the name and address of the seller, could institute proceedings against the seller, and in his opinion it would not be wise to harass the authorities or urge them to enforce the law in this direction.

Mr. Kemp drew attention to what he considered an important matter—namely, the storage of benzine on unlicensed premises. As they were aware, benzine could only be kept in bottles containing 1 pint or less, and yet he had frequently seen in pharmacies Winchester quarts of this inflammable fluid, from which small quantities were retailed. With respect to signing the poison-book upon every sale, although the law was so decisive, it was not carried out. He had a short time back proved that a person was supplied on several occasions with a scheduled poison, and had signed the poison-book at the first sale only. He had not had any difficulty in obtaining the old sort of methylated spirit. Those members who were now privileged to use it must remember that it must be kept only in the place licensed for it, must not at any time be brought into the retail shop, and preparations in which it entered must be made in that room in which it was allowed to be stored.

Mr. William Kirkby said he hoped their deliberations would have some practical outcome. It would hardly be worthy of them to meet on two occasions to discuss this matter without coming to some conclusion. The Pharmaceutical Society had a great deal to contend with, and one thing was the fear of offending its constituent members. If they could do something to dispel that fear they would do some service. Instead of embarrassing them and putting difficulties in their way, as had been suggested, they would be doing the Society a favour. It was quite certain, now that Mr. Ernest Hart had taken the matter up, that we had not heard the last of it, and it was equally certain that regulations would be made which would embarrass chemists more than at present. The Pharmacy Act, as they had heard and as they knew, had not been efficiently carried out. If they could do something to help the Pharmaceutical Council to carry out the Act, they would benefit themselves and show the medical world that they were willing to make some small sacrifice for the benefit of the public. For these reasons, if Mr. Hart would move a resolution he would be glad to second it.

Mr. Hart said that to put the matter in order he would move:—

> That this meeting is of opinion that the law affecting the sale of poisons and poisonous compounds, whether sold as proprietary articles or otherwise, should be more strictly enforced.

The motion was seconded by Mr. Kirkby.

Mr. H. Kemp said he heartily supported the resolution, and for this reason. The Pharmaceutical Society had on several occasions complained of the apparent apathy of the trade, and if all the provincial societies took no more action in the matter than the Manchester Society had done hitherto, the Pharmaceutical Council would have nothing to indicate that they were not still apathetic.

Mr. F. Baden Benger, in response to an invitation from the chair, would only say, although it seemed rather late in the day to say it, that they did not yet know for certain that the Pharmacy Act was all they wanted, and they might find within the next few months that it was not all they wanted. It was only a question of whether in the resolution they should urge the need of fresh legislation, or whether they should not satisfy themselves, or be satisfied by the British Medical Association, that the present Act was sufficient.

Mr. W. Arrandale expressed the opinion that the present Act was strict enough if it was strictly enforced; but there could be no doubt there were chemists who evaded it, and people, of course, went to the shops where they could get the things they wanted most easily.

The motion was then put to the meeting and unanimously adopted.

Mr. Kemp said there was a matter to which he might refer for the information of some present. In every fire-insurance policy issued to a chemist there was a clause to the effect that he should not have on his premises certain petroleum products, either for lighting or lubricating purposes, otherwise the policy became null and void. It was safe to say that ninety out of every hundred chemists were daily rendering their policies null and void by having on their premises those things which they were forbidden to have, and if a fire occurred directly through anything of that kind they would certainly lose all claim on the companies. Some time ago he had a difficulty with an insurance company, and when he drew their attention to the clause they haggled about it for a considerable time. He threatened to change his office, and rather than have him do that they cut out the words, and he had had no trouble since.

The Chairman inquired what articles Mr. Kemp had in his mind.

Mr. Kemp: Benzine, for instance, and even vaseline, because it says "any product of petroleum used for either burning or lubricating purposes."

Mr. Kirkby, returning to pharmacy law, said Continental pharmacists had to pass an examination in pharmacy laws, and he thought the time had come when we should have included in our examinations an examination in pharmacy law. A short course of legal training should be given.

Mr. Benger said he thought that was done in the new regulations. In his presidential address to the Conference he suggested that it should be included, because he found it was a requirement in Germany, Austria, Russia, Denmark, and Sweden.

Mr. Kirkby: But there is no course.

Mr. Benger: There is no course; but they are asking questions on it, and candidates never know what they may be asked with regard to pharmacy law, especially as to poisons.

The Chairman: You would not include fire insurance in pharmacy law? (Laughter.)

Mr. Benger: You must draw a line somewhere.

The meeting ended with a vote of thanks to Mr. Hart.

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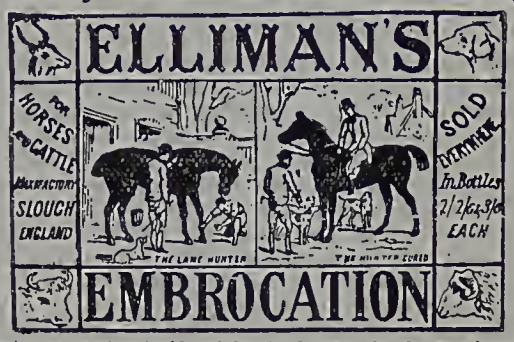

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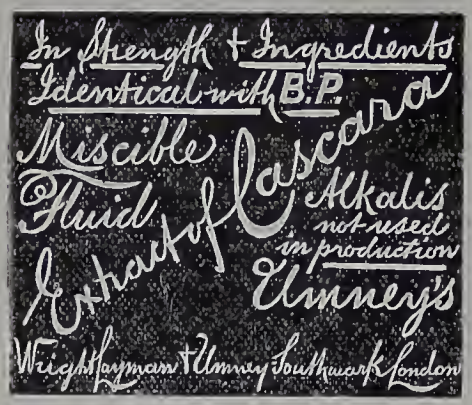

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Editorial Comments.

MEDICINE-STAMP PROSECUTIONS.

Observant chemists may have noticed from our reports that Inland Revenue prosecutions are again coming before magistrates. It is also worthy of remark that the conduct of medicine-stamp business at Somerset House has recently been transferred from the "Stamps" to the "Excise" department.

There is some reason to believe that there is a connection between the two circumstances to which we direct attention. Excise prosecutions are, we believe, almost always, if not invariably, commenced before magistrates, and we shall not be surprised if for the future prosecutions before justices are largely substituted for the hitherto familiar official notifications to offending patent-medicine dealers asking them whether they can show any cause why proceedings should not be taken against them in respect of the sale of such-and-such an article.

That such a change of procedure, if it take place—and if our surmise be correct, it will take place—will be annoying to chemists, who may be caught on some hitherto unexpected point, is certain. The irritation and delay attendant on an appearance before justices in the character of a defendant are very irksome, at least to those who are unaccustomed to the experience. But the discussion of the Medicine-stamp Act before magistrates instead of with the soulless and almost immeasurable power known as the Board of Inland Revenue, will not be entirely without compensating advantages. The chemist who feels that he has a reasonable defence will at all events get a chance of stating it and having it considered by a disinterested umpire. The fines imposed by magistrates will probably not exceed on the average the amounts fixed by the Board as the composition for the offence charged, and in a fair proportion of cases they may probably be avoided altogether. Those who want to see the Acts repealed, too, should be glad of the additional publicity thus given to their operation.

In view of the risk to which we allude, we are justified, we think, in urging on chemists a close survey of their proprietary labels and announcements; and those who have not yet thoroughly acquainted themselves with the interpretation of the statutes adopted by the Board of Inland Revenue should lose no time in studying this as it is presented in Alpe's "Handybook of Medicine-stamp Duty," published by ourselves at 2*s.* 6*d.* (by post, 2*s.* 9*d.*), or obtainable from most of the wholesale houses.

VETERINARY CHEMIST.

We reported a few weeks since a decision of the High Court of Justice, declaring the use of the description "Veterinary Forge" by a person not on the register of veterinary sugeons, to be an infringement of the privileges reserved by the Veterinary Surgeons Act, 1881. In commenting on that judgment we indicated a suspicion that the Royal College of Veterinary Surgeons would follow up their victory by challenging the right of chemists to use the adjective "veterinary" in the description of their business.

The authorities of the College have now actually put forward this claim. Mr. W. R. Hadwen, of Highbridge, Somerset, who describes himself on his note-paper and perhaps in other ways as "dispensing, agricultural, veterinary, and analytical chemist (by pharmaceutical examination)," has sent us correspondence which has passed between himself and the secretary of the College on this matter. The secretary, on behalf of the authorities of the College, informs him that his use of the word "veterinary" in connection with his business is an infringement of the Act, and he asks for an undertaking that it shall be discontinued, otherwise—*et cetera.* With Mr. Hadwen's consent we have asked the Secretary of the College to submit to the Council our proposal that this point shall be contested before the High Court on a "special case" to be drawn up by solicitors representing the College on the one side, and chemists on the other. Our proposition is to be laid before the Council, and if it is accepted, the fair-mindedness of the authorities will be beyond question. The point can hardly be satisfactorily determined if those who use the description are attacked one by one. It cannot be worth enough to any individual to justify the risk of a lawsuit. But it is a matter of some importance to the trade as a body to preserve the right hitherto unquestioned of using the word "veterinary" in such ways as shall not imply the possession of a veterinary surgeon's qualification, but only to indicate the sale of horse and cattle medicines.

If this right is to be maintained a fair number of chemists must support us. We ask for a prompt response from those interested, with definite promises of contributions of specified amounts to a guarantee fund, so that we may know what to do, and how far we may go. No chemist will make himself liable for more than he promises, and only to so much of that as may be his *pro rata* subscription, and no money at all will be asked for unless the case is actually contested. We start the subscription ourselves with ten guineas.

The sections of the Veterinary Surgeons Act on which the dispute would be likely to turn are the interpretation passage in section 2, which says that "veterinary surgery" means the art and science of veterinary surgery and medicine, and the first part of section 17, which runs as follows:—

> If after the thirty-first day of December, one thousand eight hundred and eight-three, any person, other than a person who for the time being is on the Register of Veterinary Surgeons, or who at the time of the passing of this Act held the veterinary certificate of the Highland and Agricultural Society of Scotland, takes or uses the title of veterinary surgeon, or veterinary practitioner, or any name, title, addition, or description stating that he is a veterinary surgeon or a practitioner of veterinary surgery or of any branch thereof, or is specially qualified to practise the same, he shall be liable to a fine not exceeding twenty pounds.

THE PHOSPHORUS MARKET.

As already announced in our issue of March 5, the price of phosphorus has recently undergone one of those sudden and unexpected variations to which this article is particularly liable, and the increase of 60 per cent. in the quotations has been followed by a corresponding advance in the prices of all hypophosphites and of the variety of phosphoric acid which is prepared directly from the elementary substance. The details of the negotiations among the phosphorus-makers which have led to the advance in price are, of course, kept secret, nor have we been able to obtain any official information concerning their intentions in the immediate future. The action of the English manufacturers, however, in refusing to make contracts for future delivery, and the rumour that some of the chief consumers of phosphorus in this country have been taken unawares by the rise and are practically without stock, seems to indicate that the probabilities of a further advance must be considered a factor in the situation.

Phosphorus-making is one of the industries which are still in the hands of a very few powerful firms, who, if they will only refrain from flying at each other's throats, can divide the whole world between them, and may within certain limits dictate terms to their customers. Until a few years ago England and France were the only countries in which phosphorus was manufactured, but in or about the year 1885 a factory was also established in Russia, and these works have since exercised a very disturbing influence upon the trade in the article. The first effect of the establishment of the Russian works was to diminish the importation of foreign phosphorus into the country, but within two years of its foundation the Russian factory commenced to export its phosphorus to Germany, where it undersold the more expensive, if purer, English product. Between 1878 and 1881 there was a

serious war of prices between the English and the French makers, in the course of which the price of phosphorus in sticks and wedges was reduced by successive modifications to the extent of about 40 per cent., and that of amorphous phosphorus to about 20 per cent. In the autumn of 1882 the two competing factories made peace, and at once the quotations rose to about one-half the extent of their previous decline, and for four years the two concerns enriched themselves amicably at the expense of the consumer. In the summer of 1886, however, disagreements broke out afresh, and from that time until a few weeks ago prices have been steadily falling. Phosphoric acid has not always followed the fluctuations of the raw material immediately, although the present advance is likely to react sharply upon it, as most of the makers are but poorly provided with working material. The stringency with which the English manufacturers have maintained their grip on the market whenever the circumstances allowed them to do so has, no doubt, had much to do with preventing supplies from accumulating in second hands and being used for speculative purposes. Their contracts, we believe, expressly prohibit manufacturers who buy from them to resell any part of their purchases, and they furthermore admit none but actual manufacturers to the clause guaranteeing contractors for future delivery the benefit for the unexecuted portion of their contract of any price-reduction which may occur while the contract runs.

Until a few years ago the countries of Central and Northern Europe obtained nearly the whole of their phosphorus from England, while France sent part of her surplus production to Spain and Italy. But gradually Russia has secured a not inconsiderable share of the Central European trade, a fact plainly shown in the German statistics concerning the importation of phosphorus, which are as follows:—

Imports from	1885	1887	1889	1890
	Tons	Tons	Tons	Tons
England	177	176	212	67
France	—	—	2	9
Russia	—	17	38	21
Other countries ..	2	2	—	23
Total	179	195	252	120

We have reason to believe that within a few days the negotiations still pending between the English and French manufacturers will be brought to a definite conclusion, which may possibly be accompanied by a further advance in price.

"A UNIVERSITY DEGREE FOR PHARMACISTS."

"ACADEMICAL honours," says Lacon, "are laudable objects of any young man's ambition; they are proofs of present merits and the pledges of future usefulness." This is generally true, but it is especially so in the case of a degree of the University of London. No degree is more highly prized or more eagerly coveted than one granted by the senate of the now time-honoured institution at Burlington House. For it affords indubitable evidence of natural ability, united with sound and accurate scholarship up to a fairly high standard. The point which concerns us now is, "How can a fairly educated young man, with moderate opportunities, obtain such a degree?" Everyone will agree that it is a desirable honour, but is it within the reach of the ordinary pharmacist? Certainly it is. How? It is the object of this article to point out the easiest way of going to work to obtain that degree which is of the greatest use to a pharmacist—namely, the Bachelorship of Science.

In the first place, the difficulty of enforced residence has not to be met. This would form an almost insuperable barrier to an ordinary pharmacist were it otherwise. The candidate has only to present himself at the examination-room three times, successfully, and then he may add B.Sc. to his name. The first ordeal—for it is undoubtedly an ordea—is matriculation. It is this examination which prevents many men from graduating at London. But if a man is of ordinary natural ability, and will work, he can pass it if he wishes to. There is a long list of subjects, and all must be passed at once. These are:—Latin, English, mechanics, mathematics (including algebra, geometry, and arithmetic), and one other language (usually French, German, or Greek), together with a branch of natural science (either chemistry, light and heat, electricity, or botany). These subjects are treated in very different manners. The Latin and Greek are not far above the standard of the fourth form of an ordinary public school, and should present no difficulty to a hard worker. The English papers are somewhat hard, unless one has had a little experience in working at the subject. For example, the following question was once asked:—"Indicate some of the most important facts in the history of our alphabet, and account, as far as you can, for the order in which its letters follow one another." The difficulty, however, of this paper is well met in a book published, for a few shillings, by Stewart, entitled "Matriculation English." The mathematics present no difficulty, the only requirements being algebra up to quadratic equations and the first four books of Euclid. The chemistry paper is very simple, merely requiring a knowledge of the non-metallic elements. A great point is how much time is necessary to prepare for all this. Any fellow in his apprenticeship should be able to do the work in his spare time—especially in the evenings—in about a year. If he feels that he would rather work with a teacher, he will find every facility, at very low fees, at the now renowned Institution, "The Birkbeck." It may be unknown to many, that King's College and University College passed 36 men between them at London last year, against 104 from the Birkbeck. Classes in the evening for matriculation, at this place, cost only 2*l*. Of course, it is the subsequent examinations which are of most importance to us. The first of these is the "Intermediate Science." No choice is given to the candidate at this examination. He must pass in five subjects—viz., chemistry, physics, botany, zoology, and mathematics. In the first of these a fairly thorough knowledge of the elements of inorganic chemistry is necessary, and the candidate receives two papers in the subject of three hours each. Either Watts's "Inorganic Chemistry" (omitting the chapters on the rare metals) or Thorpe's "Chemistry" will be found well suited for this work. In addition it is advisable to read Tilden's little book on "Chemical Philosophy. With an intelligent comprehension of these books it is impossible to fail. A practical examination of great simplicity has also to be passed. The candidate is given two bottles, each containing a solution of a simple salt. He is expected to detect them in an hour and a half. So much for the chemistry. In the physics, an elementary but thorough knowledge, so far as it goes, of the general principles of heat, light, sound, electricity, and magnetism is required. A detailed syllabus is drawn out which can be obtained, post free, from the registrar at Burlington House. In addition, the candidate must know the chief laws of general physics, and pass a short and easy examination in practical physics. The papers last for six hours, the practical examination for somewhat under an hour. Deschanel's "Natural Philosophy"

(Blackie), or Ganot's "Physics" (Longmans) contain practically everything that is necessary, and the whole of these books need not be read. One paper of three hours is given in botany and zoology combined. This paper always asks for more work than can possibly be done in the time, and candidates must pass in both parts of it. The best book that can be used for the botanical work is Prantl's "Botany," translated by Vines (Swan Sonnenschein). No knowledge of systematic botany is asked for, therefore the chapters on natural orders may be omitted. For the zoology the most useful book is Lloyd-Morgan's "Animal Biology." This deals very well with the purely theoretical work. Three hours of practical botany and the same time at practical zoology have to be gone through. The botany consists, in the first case, of cutting sections of stems, leaves, &c., recognising easy sections, &c., and can be worked from any botanical textbook with an ordinary student's microscope. The practical zoology is the hardest part of the examination. It lasts, as above mentioned, for three hours, and includes "spotting" slides, and dissections. The types which are given are selected from rabbit, frog, crayfish, dogfish, mussel, worm, amphioxus, hydra, vorticella, and amœba. The whole of this work is beautifully treated in Marshall and Hurst's "Practical Zoology" (Churchill), and Marshall's "Frog." Lastly, the mathematics include a knowledge of elementary trigonometry up to the solution of triangles, algebra, including logarithms, progressions, permutations, and the like; conics, only as far as the end of the circle, and mixed mathematics of an elementary, but thorough character. Any ordinary textbook is suitable for the pure mathematics, and for the mixed, Magnus's mechanics and Locke's dynamics are sufficient. All this work could be done by a man who sticks to it in a year and a half, even if he has only spare time to work in. If necessary he might take a couple of years. All the subjects are taught well and with little expense at the Birkbeck. The cost of the classes will be gone into directly. If a man wishes to take honours at the Intermediate, of course he must give up a good bit more time to the work, as the papers are very much harder, and involve a very minute knowledge of the subjects. After this is passed, he will proceed to the "B.Sc." examination. Nine subjects are proposed, of which the candidate chooses three. They are—chemistry, botany, physics, mathematics (pure *or* mixed), mental science, geology, physiology, and zoology. For a pharmacist the natural subjects to choose are chemistry, physics, and botany. For the guidance of intending candidates it would be as well to look over a few papers that have been set. He must have a fair knowledge of inorganic chemistry rather above the standard of the pass examination at the Intermediate, and also a good general knowledge of organic chemistry. He should—unless, of course, he already knows something of the subject—first read Remsen's "Organic Chemistry," and supplement this with Bernthsen's "Organic Chemistry" (Blackie). These two books are exceedingly valuable for this work. Six hours are given for the papers, and six hours for practical chemistry, which is about on a level with that set in the Major examination. In the physics he has to have a much deeper knowledge of the subjects set at the Intermediate. The best books he can read are Balfour Stewart's "Heat" (Clarendon Press), with parts of Clerk Maxwell's "Heat" (Longmans), Larden's "Electricity" (Longmans), Glazebrook's "Physical Optics" (Longmans), and the chapters in Deschanel on "Sound." The practical examination in this subject lasts from two to four hours, and includes ordinary physical measurements, such as determination of pitch of tuning-forks, specific heat, melting-points, latent heats, and the like. For this work, of course, one must go to a physical laboratory. The botany is the hardest subject to work at in the whole examination, for the reason that the work must be picked out from a number of different books. It is absolutely necessary to read the whole of either Vine's "Physiology of Plants" (Cambridge Press, 21*s.*), or Sach's lectures on the "Physiology of Plants" (Clarendon Press, 31*s.* 6*d.*) Of these, the latter is preferable, and covers all the physiological botany required. For the cryptogamic work, "Bennett and Murray" is as good as any book. It would be worth while reading Goebel on this part of the subject, as well as on the Phanerogams. The chapters on natural orders in Prantl and Vines ought to be known. With these no one ought to fear the subject. Six hours are devoted to the papers and six hours to the practical, which is well covered in Bower's "Practical Botany" (Macmillan), so long as the student has examined a good number of slides in addition. All the ground is covered time after time by men who have only the evenings to work in, and certainly should not be above the ability of an intelligent pharmacist. The honours papers in the Final involve a deep and intimate knowledge with all the recent developments of the science, and, of course, are only attacked by men who have been able to devote a good deal of time to the special subject. The cost of the whole course is not great. Of course, living expenses depend entirely on the position of the individual, and must be reckoned by him as he thinks fit. The whole of the educational expenses can be easily covered by about 50*l.* The fees payable for the examinations themselves are 12*l.* At the Birkbeck, which is, perhaps, the best place for evening students to work at, the whole of the ground can be covered for about 22*l.* This allows for the three examinations, with all the practical work, except the chemistry at the Intermediate, which no pharmacist should want teaching in. 12*l.* will cover all the books and instruments which are necessary. So that, granting a man does not fail at any of the examinations, 50*l.* will pay all his educational expenses. For this sum and a fair amount of energy, the hard-working chemist's assistant may rise to a still higher position in the world of competition, and sign himself W. Blank, B.Sc.

ZANZIBAR AND THE CLOVE TRADE.

At the time of the publication of the last annual statement of the trade of the United Kingdom with foreign countries we pointed out that in no direction had our foreign trade grown more largely during the last five years than with the countries of which Zanzibar is the chief business centre. Our imports from those parts were worth 129,222*l.* in 1886, in 1890 they had grown to 722,893*l.*, while the exports, in the same period, advanced from 254,421*l.* to 521,190*l.* Since the publication of those figures a new British political officer, Mr. Portal, has been sent to Zanzibar and has assumed practically the government of that island. The city has been declared a free port, and sundry other reforms have been initiated which will no doubt contribute largely to its commercial importance. Mr. Portal has just sent home his first report on the commerce of our new dependency, in which he expresses himself full of hope for the future. A big cloud, however, obscures the commercial sky of Zanzibar at this moment—viz., the overproduction of cloves, its staple article of trade. Since the clove-tree was first introduced in the islands, about sixty years ago, it has been an enormous source of wealth to the Arab landowners and to the Sultan. There have been periodical depressions in the price before, but until about three years ago 6*d.* to 7*d.* per lb. was considered a very low quotation, and once, after a

hnrricane which destroyed the greater part of the plantations, the valne of cloves rose to 1*s.* 7*d.* per lb. in the London market. Lately, however, the clove crops have become larger and larger, and they are now almost every season greatly in excess of the world's estimated annnal consnmption, which is about 80,000 bales of 140 lbs. each. As a result the price ($3\frac{1}{8}$*d.* per lb.) has fallen to within measurable distance of the lowest point it has ever touched —viz., $2\frac{7}{8}$*d.* per lb., in 1869—when, however, there was no export duty, or at any rate a mnch smaller one than at present.

The London warehouses are burdened, at this moment, with a stock of not less than 34,000 bales of the spice, and the qnantities warehoused in America and on the Continent are also known to be exceedingly heavy. The cause of the present depreciation of cloves lies exclusively in the short-sighted policy of the Arab plantation-owners in the islands of Pemba and Zanzibar, who have neglected the cnlture of all other products which they might have reared with profit upon their fertile soil, and tnrned every available acre of land into a clove-plantation, without the least thonght of the inevitable effect of their action. The people and the ruler of Zanzibar have for years been practically dependent upon the retnrns of the clove-crop for their snstenance, and the problems that confront Mr. Portal, in consequence of the breakdown of the one remunerative industry of the island, may, in proportion, become as difficult a solution as the sitnation created by an Indian famine or a failnre of the Nile flood in Egypt. Telegraphic information received this week states that the Arab landowners have presented petitions to Mr. Portal declaring that they are ruined by the low price of cloves and the scarcity of labour, and asking for a reduction of the clove tax. There is no doubt that, sooner or later, these demands, so far as the redncton of the export dnty is concerned, will have to be granted. The puzzle will be where to find a source of revenne which will reconp the Snltan, to whom Mr. Portal stands in the relation of a kind of *maître de palais*, for the loss of the mainspring of his income. Cloves are the cork by which the Court of Zanzibar is kept afloat. "A few years ago," says Mr. Portal, "the price of cloves nsed to range from \$7 to \$10 per frasila (35 lbs.), and the export dnty taken on them by the Sultan was 30 per cent. *ad val.* The price does not now exceed \$$2\frac{1}{2}$ to \$$2\frac{3}{4}$ per frasila, and the export dnty has been reduced to 25 per cent." The 25-per-cent. duty, the growers probably think, would give them a fair margin of profit; bnt there is no doubt that if it were abolished to-morrow, it is not the Zanzibar Arabs, but the European spice-dealers and oil-distillers, who wonld profit, for quotations here would certainly answer with a corresponding fall. The scarcity of labour of which the Arabs complain is probably traceable to the abolition of slavery by the late Saltan. It mnst be remembered that at the time of the bndding of the clove-tree there is a sndden demand for labonr npon the plantations, for if the bnds are not promptly picked they bnrst into flower, and become valueless. Mr. Portal is so well aware of the critical condition to which the country has been brought by the over-production of cloves, that he is already looking ont for other economic articles to be bronght into cnltivation when the Arabs' day shall be done (a contingency which tho consul foresees at an early date), and the land have passed into the hands of Indians and Europeans. From manioc (tapioca), sago, cocoanuts, pineapples, and aloes Mr. Portal expects something. The plants already grow wild in profusion, and with a little care and intelligence might become profitable—the aloes and pineapples specially on account of the valuable fibre they yield. Vanilla, he thinks, might also become a profitable cultnre. The French missionaries in Bagamoyo, on the German coast opposite, already grow it, and assert that it pays them well. Chillies grow plentifnlly all over the eastern and sonthern parts of the island. Next to cloves and coprah they are the most important Zanzibar prodnct. Dnring the period from the beginning of this year nntil October 13, 112,179 rupees' worth of them were shipped—half going to London, the remainder going to New York and Marseilles.

Until the English stepped in to set the Snltan's tottering house in order, no official statistics or acconnts of any value were kept in the island. No records were made of shipping; the lighthouses around the coast were left crumbling to pieces, and the only object to which the Government appeared to apply itself with sympathetic ardonr was the colleotion of taxes. Mr. Portal has but one term to express the cause of all the wretchedness in Zanzibar—"Arab domination"—now, fortnnately, in process of abolition.

COMMENTARY.

THE ATTACKED APOTHEKERS.—The echoes of the Socialist attack are still resounding through the pages of the pharmaceutical press in Germany. The *Pharmaceutische Zeitung* has a lengthy article, in which it acknowledges that the action of the Social Democratic party opens a new era in the history of German pharmacy. It attributes to a pharmacist, Mr. Kempf, the "donbtful merit" of having been the direct canse of this new phase of evolntion. Apotheker Kempf was the first to propound the State-pharmacy theory. He was, of course, sconted and ridicnled by his colleagnes, bnt, being a man of determined mould, he continued his agitation, sent petitions to the Reichstag, and thns paved the way for what has now become a movement, to resist which reqnires the full strength of the profession. The *Pharmaceutische Zeitung* does not deny that the German pharmacist has revelled in fat years dnring the last decade. The sick-funds, which, as a resnlt of modern legislation, have sprnng np all over the conntry, spend no less than twelve millions of marks a year in medicine, and all of this has to be obtained from the pharmacists. But, says onr contemporary, if pharmacy has prospered, so have other branches of bnsiness—notably the coal and iron indnstries, in which proprietors have reaped immense profits from the protective Customs-dnties. Then why should tbe apotheker be specially singled ont for attack? Not the desire for the common weal, but base envy only, inspires the Socialist attack! The answer, we presnme, would probably be that the Socialists do oppose protective Cnstoms-duties, and that the apothekers occupy a special position by virtue of the governmental limitation of competition in their profession. The jonrnal we have quoted puts the increase in the average takings of German pharmacies during the last ten years at from 2,000m. to 2,500m., dne to the increased consumption of medicine, the official sale prices not having been advanced. Every year about 540 German pharmacists pass the examination, which empowers them to carry on bnsiness on their own account, while the number of new concessions granted is from twenty to thirty. The average number of pharmacies changing hands per annnm is 300, out of a total of 4,850.

TARAXACUM-ROOT of American growth has yielded 22·5 per cent. of ash to Mr. L. H. Koch, a student of the Philadelphia College of Pharmacy. The same sample (a commercial one) yielded 15·6 per cent. of inulin, but a sample collected by Mr. Koch in Ohio during March yielded only 5·2 per cent. of inulin.

Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

"Flower-farms" in America.

We have heard a good deal lately about the starting of flower-farms in the United States, especially in Florida and California, but, so far as we are aware, no one has ever yet seen any commercial products from these undertakings. The last reference to new American flower-farms is found in a paragraph going the round of the American papers to the effect that "J. P. Cavallier, of Cavallier & Frères, French manufacturers of perfumes, has perfected arrangements for establishing a large perfume-factory on E. J. Baldwin's Santa Anita ranche near Los Angeles. Fifteen French flower-gardeners are now on their way to this country. The cost of the distillation apparatus will be $60,000, and the bottling-works will cost $50,000. It is proposed to plant several thousand acres in choice flowers, and to increase the acreage every year. Women and girls will be employed to pick the flowers. The M'Kinley Bill helps the enterprise, in which Baldwin and other wealthy Californians have taken stock." Singular to say, the Californian newspapers are the only ones in the States that seem to have heard nothing of this enterprise.

Orange and Jasmine Pomade from Florida.

We have no doubt that there are some localities in the United States well adapted for the successful propagation of flower-cultures, but Staten Island, in the State of New York, would seem hardly the most suitable spot in the Union for such a purpose. Yet it seems that a concern known as the "American Enfleurage Company" has hit upon this classic ground for its "location." That, at least, is the inference we draw from the letter of a Florida correspondent of the *American Soap Journal*, who asks the editor of that publication to tell him what has become of the company in question. It was started, it seems, last September, and besides cultivating flowers in Staten Island was looking round for a suitable spot in Florida as well. The Florida man calls out to the company to look sharp if they mean business, for, says he, "the spring is near—the yellow jasmine will be in full bloom in a week or so. In March the orange-trees will be loaded with flowers. The air will be saturated with their perfume; the soil will be covered with the fallen petals, and thousands of dollars would be lost by that waste, sent stupidly to fill the coffers of those who in the Old World know and appreciate the value of what the New World disdains!"

From the Jamaica Botanic Gardens.

The Director of the Kingston Botanic Gardens, in his report for 1891, says that during the year no cultivation of cinchona has been carried on. Trees, however, which are seen to be dying are barked, and the bark is sent to the store-room in Kingston. "The store-room for cinchona," continues the director, "is full, and I am only waiting for a rise in the market (*sic!*) to ship to London. I have ascertained that a considerable reduction has been made in the charges for carriage of bark to London. The following are the amounts of barks harvested in 1891:—Hybrid (standard), 1,138 lbs.; Officinalis, 5,453 lbs.; Succirubra, 1,717 lbs.; hybrid (mixed), 1,574 lbs; total harvested, 9,882 lbs. I have been asked by a London firm to supply seeds of cinchona Succirubra to the value of 50*l.* for growing on estates in Ceylon. The coca shrub grows well in Jamaica, but unless grown on a large scale, it probably would scarcely pay. The demand for nutmeg-plants is increasing, and I anticipate that at least 20,000 seedlings will be required during next year. Arrangements have been made to grow plants in the gardens from the very finest seed procurable from the best estates in the West Indies. The plants will be sold at cost price."

Northern Senega.

Mr. L. E. Sayre, of the University of Kansas, has communicated a note to the *American Journal of Pharmacy* on Northern senega. Hitherto the drug which has gone by this name was very unlike true senega, but the samples which Mr. Sayre has had submitted to him are very good senega. It appears that Professor L. L. Dyche was on a hunting-tour in the North-West, in the country lying near the Lake of the Woods, and here he found that the root is collected in very large quantities and the natives depend upon it as one of the means of subsistence. The squaws and the children dig the root. At the different trading-posts in Marshall and Kittson Counties there are good stores of the root, and at a little town, Rocksted, near Thief River Falls, the Indians come in from long tramps of forty miles or more and bring in the fur, skins, and this senega. Here they had an immense stock on hand. Since his return, Professor Dyche has received a letter from a trader at Jadis, Kittson County, stating that he has on hand 1,000 lbs. bagged up, waiting for a fair market price. The description of the root is as follows: In length it varies from 4 to 8 inches; in diameter from $\frac{1}{16}$ to $\frac{1}{2}$ inch. Surrounding the root is a dark scar-covered head, having a diameter of from $\frac{1}{4}$ to $\frac{1}{2}$ inch. The characteristic keel of Southern senega is rarely present, and the root is much less contorted. The colour ranges from the light yellow of young roots to the dark brown of the older ones. Near the head, prominent annulations are present. These continue, with enlarging intervals of space, for some distance down the root. Lengthwise the whole root is deeply wrinkled, while frequent warty enlargements occur. The branches are not numerous. In considerable quantities, the odour of gaultheria is quite prominent, as it is also in a cold aqueous infusion. The taste is very acrid, and a chemical examination showed the presence of 3·5 per cent. of polygallic acid, while there was abundant evidence of methyl salicylate.

The German Invasion of India.

The probability, or the reverse, of a future Russian invasion of British India has for years been a favourite stock-subject of politicians and journalists. While these authorities are straining their eyes in the direction of the land-frontier, another invasion, much less talked about, but very much more real and palpable, is taking place by sea. It is the invasion of what used to be regarded as one of the great preserves of British commerce by the never-resting German manufacturer. The development of the German steam service with the East reveals the growing power of Germans in the Indian market in a manner that would have been impossible if nearly all goods were still shipped by way of this country, as in former days. The official Indian statistics recently published give the following particulars of some of the imports into British India from Germany:—

	1889-90 Rupees	1890-91 Rupees
Chemicals (undenominated) ..	18,507	43,311
Quinine	6,312	24,256
Medicines	48,430	70,964
Opium	10	100
Aniline dyes	208,355	297,014
Other dyes	1,020	2,902
Instruments and apparatus ..	40,471	100,470

The total value of all goods imported into India from Germany has been:—In 1886–87, Rs. 1,603,000; 1887–88, Rs. 1,944,920; 1888–89, Rs. 2,480,160; 1889–90, Rs. 5,639,120; 1890–91, Rs. 16,916,490.

Sixteen-per-cent. Cinchona.

Two samples of cinchona taken from trees in the Government gardens at Rioeng Goenoeng, Java, were recently analysed, and found to equal respectively 12·66 and 16·54 per cent. of

sulphate of quinine. These are exceedingly high percentages, and the private planters in Java, who buy their cinchona-seed from the Government, want to know why it is that the best seed ever supplied them yields trees of no higher quinine value than 7 to 8 per cent.—with the exception of the seed from one Government plantation, that of Gombong, from which trees yielding 13 25 per cent. have been raised. It is also pointed out that the richest Government cinchona-bark hitherto brought to market has not exceeded 9½ per cent. sulphate of quinine, and there seems to be an unpleasant impression that the present director of the Government gardens (who is soon to be superseded) has systematically kept the richest barks from the market, and the best seed out of the hands of private cultivators.

A New Commercial Oil.

A Chicago glucose company is now turning out 1,500 barrels per day of a new commercial product, which they call "corn oil." It is (says the *Shipping and Commercial List*) a yellow liquid much resembling linseed oil in appearance, and can be used in making paint, varnish, or soap. The oil is contained in the germinal part of the grain. In the process of manufacture the germ is separated from the kernel, and the oil obtained by hydraulic pressure. The oil has heretofore been a waste product, which was lost in the ordinary method of making starch and glucose. The proportion of oil in whole corn is about 4 per cent.

Australasia at Chicago.

Exhibition Commissioner Campbell has returned to Chicago from Australasia, and reports that great enthusiasm for the exhibition is felt in that part of the world. New South Wales, South Australia, Victoria, Queensland, New Zealand, and Tasmania are all making extensive preparations for their representation, and splendid exhibits will be sent. Three new steamers between Sydney and San Francisco are about to be put on.

The London Markets.

42 CANNON STREET, E.C., *March* 16.

ACID (CITRIC).—A very firm market. The English makers quote 1*s.* 5¾*d.* per lb. on the spot, and we hear that secondhand holders sold two tons to-day at 1*s.* 5¼*d.* per lb. The quotation for forward delivery is 1*s.* 5½*d.* per lb. Juice is quoted at 20*l.* 10*s.* to 20*l.* 15*s.* (Our last week's quotation for juice should have been 20*s.* lower than printed.) The exports of citric acid still remain very large. Between March 1 and 12 no less than 329 cwt. were cleared through the London Custom House.

ACID (TARTARIC).—Stagnant: English at 11⅝*d.* to 12¼*d.*, according to brand; foreign at 11¼*d.* to 11½*d.* per lb.

ALCOHOL.—German potato spirit is cheaper, best quality on offer now at 12*d.* c.i.f. per proof gallon, or at 14*d.* in bond on the spot.

ANISE.—Russian anise is firmly held at 21*s.* c.i.f. terms for fair usual quality. Sifted anise costs about 5*s.* extra. Cables from China announce an advance in star-anise, 106*s.* 6*d.*, c.i.f. terms, being the quotation.

ANTIMONY.—Crude Japanese is a little easier, sales having been made this week at 26*l.* 10*s.* per ton on the spot.

BALSAM (COPAIBA).—The market is dull and prices are tending rather easier. Good bright thick *Maracaibo* is quoted at 1*s.* 9½*d.* to 1*s.* 10*d.*; *Pará* at 1*s.* 8*d.* per lb.

BALSAM (PERU).—Reported somewhat firmer held, though the price has not yet changed, 5*s.* to 5*s.* 3*d.* per lb. being still demanded.

BARYTES.—It is reported that all the mines in Belgium have been bought up by a syndicate, and prices have been raised 2*s.* 6*d.* all round, the present quotations being for No. 0, 37*s.* 6*d.*; 1 to 3, from 35*s.* to 30*s.*, c.i.f. terms; best Irish barytes are quoted at 67*s.* 6*d.*, ex wharf; German at from 50*s.* to 70*s.*

BLEACHING-POWDER.—The market is very firm, although quotations are still unaltered—viz., 8*l.* 5*s.* in London, and 7*l.* 10*s.* f.o.b. Liverpool. The Alkali Union, however, are reluctant in accepting orders at these prices.

CAMPHOR (CRUDE).—The market is higher. Five tons *China*, February shipment, are said to have been sold at 110*s.*, c.i.f. terms, and 200 piculs Japan, March-April shipment, at 116*s.* c.i.f., a price at which nothing more is offering, importers now asking 117*s.* 6*d.* c.i.f. Japan spot is offering at 127*s.* 6*d.* per cwt.

CAMPHOR (REFINED).—Japanese refined camphor in block has lately sold at 1*s.* 5*d.* per lb.; flowers are offering at 1*s.* 4½*d.* per lb. Small blocks of this variety are likely to be introduced within a few months. The German refiners are making rather lower quotations, and will accept 1*s.* 5*d.*, net terms.

CANTHARIDES.—Russian flies are offered at 3*s.* per lb. c.i.f. for natural, and 3*s.* 2¾*d.* per lb. c.i.f. for sifted quality.

CARDAMOMS.—These are the exports from Ceylon between January 1 and February 22:—1892, 70,095 lbs.; 1891, 46,275 lbs.; 1890, 68,222 lbs.; 1899, 57,010 lbs.

CASSIA LIGNEA.—The market remains exceedingly dull fair quills being worth not more than 22*s.* per cwt.

CHILLIES were rather lower at the end of last week, and at this week's auctions prices showed a further decline, medium yellow mixed Zanzibars realising 58*s.* to 58*s.* 6*d.*, fair reddish, but stalky, 63*s.* to 64*s.* per cwt.

CHLORATE OF POTASH.—Exceedingly firmly held at 7*d.* per lb. in London and 6⅞*d.* per lb. in Liverpool.

CINCHONA.—Hardly anything will be offered for sale tomorrow, a parcel of about 100 packages having been landed just too late for inclusion in the auctions. The next Amsterdam auctions, to be held on March 31, will, after all, not be so small as had been predicted. They are to include 3,879 packages, or about 346 tons. The exports from Ceylon in the periods between January 1 and February 22 have been:—In 1892, 626,734 lbs.; in 1891, 794,292 lbs.; in 1890, 1,023,409 lbs.; in 1889, 1,354,882 lbs.

CLOVES.—Zanzibar cloves have further declined in price. For delivery, June-August business was done at the end of last week at 3 3/16*d.* per lb. At auction 751 bales Zanzibar were bought in, with the exception of a few bales fine bright, for which 3½*d.* per lb. was paid. Stalks sold at ¾*d.* per lb.; good picked Penang cloves at 11⅝*d.* to 12¾*d.* per lb.

COCAINE.—The market is 6*d.* lower for hydrochlorate, which may now be had at 21*s.* 6*d.* per oz. Crude cocaine has had a still more serious fall, sales having been made at 14*s.* per oz. this week, whereas the former price was 15*s.* 6*d.* per oz. Sixty bales coca-leaves were recently lost in the *John Elder*. The *Atrato* has just brought 6 packages crude cocaine from Callao.

COLOCYNTH.—The market is over-supplied, and fair Turkey apple is not worth more than 11*d.* per lb. now. There has been some slight demand for Spanish at 7*d.* per lb.

CREAM OF TARTAR.—Very dull of sale at 88*s.* to 88*s.* 6*d.* per cwt. for best white French crystals.

GALLS (TURKEY).—The market for Bassorah galls is dull, best blues are nominally held for 72*s.* 6*d.* to 75*s.* per cwt.; green galls at 57*s.* 6*d.* to 60*s.* per cwt.; while whites, of which very little is offering, are quoted at 52*s.* per cwt. It is said that the crop of galls from the districts which export through Bassorah has again failed, and, if that should be true, higher prices may shortly be seen.

GAMBIER.—Prices have declined almost day by day for forward delivery. On the spot retail sales of cubes have been made at 32*s.* 6*d.* per cwt.

GINGER.—At auction 68 bags rough limed Japan sold at 37*s.*; washed Cochin brought better prices, 48*s.* for new crop. Rough old crop sold at 47*s.* Jamaica realised 65*s.* to 70*s.* for medium to bold dull washed, and 52*s.* for common lean. A few days ago 100 bags African sold privately at 34*s.* 6*d.* to 35*s.* per cwt.

GUM ARABIC.—Since the last public sales a fair amount of business has been done privately, though at some reduction in price. About 200 cases *Ghatti* gum have sold at 23*s*

to 26*s.* for ordinary brownish to fair. Very fine gum is inquired for, but is not offering. Pickings are abundant and low in price, but neglected. *Amrad* gum remains steady, with sales of good Kurachee at 55*s.* to 60*s.*, pale Cawnpore at 38*s.* to 42*s.* 6*d.*, and brown to red Amrad at 32*s.* to 35*s.* per cwt.

GUM TRAGACANTH.—At public auction on Friday last 828 packages were offered. Almost all of this was limited at high figures and only about one-eighth part sold at unaltered prices: Seconds at 9*l.* 15*s.* to 10*l.*; thirds and fourth at 7*l.* to 9*l.* 5*s.*; ordinary grades at from 6*l.* 12*s.* 6*d.* down to 3*l.*

LYCOPODIUM.—Very firm. Best sifted Russian, 1*s.* 8½*d.* per lb., c.i.f. terms.

NUX VOMICA.—The market has been somewhat quiet lately and dull, and the arrival of about 600 bags will not tend to make it any firmer.

OCHRE.—French ochres have recently been advanced 5*s.* per ton, and are now steady, importers not being willing to accept less. Best quality is quoted at 57*s.*, seconds at 52*s.*, ex-wharf. Derbyshire ochres quiet, without much demand.

OIL (CASTOR).—From Calcutta the news (dated Feb. 24) is not at all in keeping with the present position of the London market. The demand for oil is on the increase, stocks remain small, and seed for crushing is scarce and dear.

OIL (COD-LIVER).—Telegrams received from Norway this week have quite altered the position of affairs, and prices are now rapidly advancing, 65*s.* to 66*s.* c.i.f. being to-day's lowest quotations for best non-congealing oil. Holders are by no means anxious to sell as they expect the market to improve further. Our Norway correspondent writes, under date of March 4:—The fishing in Lofoten and at Soendmoere (between Aalsund and Christiansund) has been rather better during the last ten days, and the oil market has become still weaker. New season's non-congealing oil is said to be quoted as low as 62*s.* to 63*s.*, c.i.f. United Kingdom, east coast. The continued fall in price had made buyers scarce, and only willing to buy from hand to mouth, but prices are now so low that many producers will cease making medicinal oil, and it is thought that the bottom price will soon be reached. Another thing to be taken into the calculation is the fact that the fishing in Lofoten up till date has been carried on along the western banks, and as two-thirds of the large factories are situated near the eastern banks, the quantity of medicinal oil produced cannot come up to the average unless a considerable change should take place within the next fortnight or so.

OILS (ESSENTIAL).—A firm of exporters in Messina write, under date of March 9, to say that in their opinion the present high prices of Italian essential oils are due mainly, if not entirely, to the action of local speculators, who, having had an advantageous season for the sale of green fruit, can now afford to hold on to the essential oils; at the same time, the orders which reach Messina for export are exceedingly limited, and there is ground for believing that speculators will not succeed long in maintaining the market at its present position, especially as the prospects for the next crop are exceedingly good. At present the quotations are:—For *Lemon*, from 9*s.* 9*d.* to 10*s.* 3*d.*; for *Bergamot*, from 10*s.* to 10*s.* 7*d.*; and for sweet *Orange*, from 9*s.* 2*d.* to 9*s.* 9*d.* per lb., f.o.b. *Anise* is reported 2*d.* per lb. dearer for China, the present quotation being 6*s.* per lb., c.i.f. terms. There has been a strong inquiry (see also the letter from our Bombay correspondent) for Indian oil of *Geranium*, and prices have risen considerably. Oil of *Eucalyptus* has now practically returned to its position before the rise—sales were reported last week at 3*s.* per lb. for good Australian, but we question whether it would not be possible to buy cheaper now. American oil of *peppermint* (HGH) is quoted a little lower this week, 13*s.* per lb. would buy.

OPIUM.—Our Smyrna correspondent writes, under date of March 5:—"Our market is steady at 6*s.* 9*d.* to 7*s.*, f.o.b., for manufacturing opium, and we do not look forward to any further decline for good material, but inferior and secondary lots (of which there are 300 to 400 cases of last year's crop) would be ceded on easier terms, owing to their poor intrinsic value. The weather, so far, continues favourable for the young plantations, but the acreage under cultivation is less than last year, as it is more profitable to sow wheat and barley than opium at its present reduced value." In spite of considerable sales which are reported from Smyrna, and of the fact that the market in China, which takes a large quantity of Persian opium, is very excited, London does not seem to move at all. Quotations here are unchanged as follows:—Good to fine soft shipping, 8*s* 6*d* to 11*s.* 6*d*; good to fine Smyrna, 7*s.* 6*d.* to 8*s*; second druggists', 7*s.* to 7*s.* 6*d.*; ordinary to fine Constantinople, 7*s.* to 8*s.* All Persian opium bulk has been taken off the market, holders not being willing to sell it at the present low prices. Fifteen cases damaged Persian sold "without reserve" last Friday at 4*s.* 3*d.* to 5*s.* 3*d.*, and two cases sea-damaged ditto at 5*s.* 9*d.* to 7*s.* 9*d.* per lb.

PEPPER.—Again lower for all kinds. *White* Singapore, dull to fair, sold at 4⅞*d.* to 5*d.* at auction; and ditto Penang, fair, at 4⅜*d.* per lb. privately.

QUICKSILVER remains firm. The importer wants 7*l.* 2*s.* 6*d.*; second-hand holders offer at 7*l.* 2*s.* per bottle. If any advance should be made in the metal it is exceedingly likely that the prices of mercurials will be raised by the makers—this time in concert with the agents for the French manufacturers.

QUILLAIA.—Further sales of fair Chilian bark are reported this week at 27*l.* per ton, c.i.f. terms.

SHELLAC.—At the close of last week the market maintained the advance which had declared itself on Thursday, and a moderate business was reported on the spot at steady prices. Early in the week, however, the market became again easier for delivery, and orange TN, for April delivery, sold at 79*s.* and 78*s.* per cwt.; while for August from 80*s.* down to 78*s.* 6*d.* was accepted. At the auctions on Tuesday 1,005 cases were offered. The demand was very good indeed, and cases sold at an advance of 1*s.* to 2*s.* on *Orange* lac. *Garnet* was steady, but *Button* lac sold at a decline of 1*s.* per cwt. The following prices were paid:—*Second orange*, worked, fair reddish to good bright, 76*s.* to 78*s.*; dark block to fair livery, 69*s.* to 75*s.*; unworked, pale to good bright, 77*s.* to 79*s.*; ordinary livery to reddish, 71*s.* to 75*s.* *Garnet*: Good unworked AC, 76*s.*; *Button* cakey seconds, 78*s* to 79*s.*; thirds and fourths, 60*s.* to 65*s.* per cwt. Since the auctions the market has been quiet, with sales for April delivery at 79*s.* A parcel of 200 cases AC garnet, March–May shipment, sold at 74*s.*, c.i.f. terms.

SODA (CAUSTIC).—Five shillings dearer, and quoted at 10*l.* 10*s.* for 70-per-cent. and 9*l.* 7*s.* 6*d.* for 60-per-cent. f.o.b. Liverpool; London 70-per-cent. spot, 11*l.*

SPERMACETI.—American refined is quoted at 1*s.* 6*d.* per lb. now.

TEA.—There is no change to report in the *China* market save, perhaps, for a slight stiffening of rates for lower-priced capers, and as the prophets tell us we are to have no new capers till late in July, the situation looks rather more favourable. A small shipping demand for first-crop Ningchous for Russia has at last cropped up, and a few chops taken off the market for this purpose should make the figures for this month look rather better. *Indians* are quiet, and good sweet Pekoe Souchong at 4½*d.* and 4¾*d.* per lb. still does not tempt speculators. Good liquoring teas are getting exceedingly scarce, and are likely to be still scarcer. A heavy *Ceylon* sale on Tuesday went fairly steadily, but there is far too much low tea for buyers' requirements, the great bulk of every sale consisting of these grades.

Thursday's Market News.

42 CANNON STREET, E.C., *March* 17.

London. Business has been of a rather better character all round this week, and a good many articles of importance have improved in value. Looking in the first place at the drugs, we have to report that to-day's auctions passed off in a fairly satisfactory manner, the following being the principal alterations at the sales as well as in the private market:—Vanilla is rather dearer, especially for fine qualities; Tinnevelly senna is also higher, and is becoming exceedingly scarce; crude camphor has sold at some-

what better prices; rhubarb, gum myrrh, and dragon's blood are again firmer; and higher prices are reported for lycopodium, Tolu balsams, and senega. Cape aloes are scarce at the present moment, but East Indian, especially Socotrines, are in abundant supply, and the price for the latter variety declined nearly 20*s.* at to-day's auctions. Galangal, a long-neglected article, has had a considerable rise lately, which was shown at to-day's drug auctions. The demand for musk was rather better, and fine qualities realised some advance upon valuations. Calumba remains firm, and is well inquired for; and castor oil, in spite of further sales without reserve, showed some slight improvement. The position of cod-liver oil has been reversed altogether, and prices are now rising as rapidly almost as they fell last week. Star-anise and oil of anise are both quoted higher from China. Indian geranium oil is also much dearer. Italian oils, however, remain unchanged, but firm. Ipecacuanha in large supply and cheaper. Cardamoms, which are also plentiful, sold at an irregular decline. China cantharides, gum elemi, cuminseed, and kola-nuts are all cheaper. The recent advance in annatto-seed has been lost. Buchu-leaves are giving way, owing to continued arrivals, and in gum ammoniacum the market is now so well supplied that holders will have to accept lower prices to effect sales. Ergot of rye is decidedly easier, and there was a considerable fall in China turmeric to-day. Madagascar beeswax in better supply and somewhat lower. In chemicals the chief change is the improved position of citric acid, which advances slowly and steadily. Cocaine is decidedly easier, cream of tartar is also sold for lower rates, and refined camphor is offering at a somewhat slight reduction. In metals, antimony is easier, and quicksilver not quite so firm as it has been. Turning to articles indirectly allied with the drug trade, we find that shellac is slightly improved, caustic soda and sulphate of ammonia are both dearer, bleaching-powder is very firm and not unlikely to rise, barytes and ochre are higher, Turkey galls do not command the same high price as last week, spices are also lower, German potato-spirit is somewhat cheaper, and benzine, quillaia and linseed are all lower in price. There is no change in the bank-rate, which remains at 3 per cent. Bar silver is quoted at 41¼*d.* per oz., and Bombay and Calcutta exchanges stand at 1*s.* 3$\frac{25}{32}$*d.*, Hong-Kong at 2*s.* 11¼*d.*, and Shanghai at 4*s.* 0⅝*d.*

Liverpool. Our Liverpool correspondent writes that chillies have been arriving more freely, while the market has again been cleared of fenugreek-seed. Cream of tartar is still falling, while sulphate of copper and chlorate of potash remain firm. The demand for Californian honey has improved, and quillaia remains steady. In castor-oil the market has been exceedingly animated, with large sales at rising prices. Calabar beans are easier. Brazilian arabic gum has been in request, and turpentine is dearer.

America. From New York the latest mail news, dated March 7, is to the effect that the firm tone of the drug-market continues without any sign of abatement. The principal alteration in America has been a decline in the price of morphia by about 15 per cent. Quinine remains quiet, and the domestic citric-acid makers have advanced their prices 1*d.* per lb. in sympathy with London. The ergot-market is breaking down, and lower prices are being taken by the importers. Lycopodium is still rising, and the spermaceti market has become exceedingly firm, with no stock to speak of. Peru balsam is firmer, copaiba in fair demand. Cascara is in request, with light stocks, and so is sassafras-bark. The available supply of senega is very light, and holders ask exorbitant prices. Sarsaparilla is firmer, and jalap is selling very briskly for export. Golden seal strong, but inactive. The heavy chemical trade has been much agitated by the question as to which firm would be appointed selling agents for caustic soda for the Alkali Union, but doubts have been set at rest now by the announcement that the agency has been entrusted to Messrs. Jas. Lee & Co. and Edward Hill's Son & Co., both of New York.

ALOES.—The supply of *Socotrine* aloes is now very heavy, much in excess of the requirements, and prices are coming down rapidly. Of 104 kegs, 15 sold at 6*l.* to 6*l.* 2*s.* 6*d.* per cwt. for partly soft aloes of good flavour and colour—a decline of 20*s.* compared with the previous sales. Of another lot of *Zanzibar* aloes, in skins, a part sold at 82*s.* 6*d.* for fair bright hard, 62*s.* 6*d.* to 70*s.* for ordinary mixed, with stones and leaves, and 25*s.* per cwt. for very common drossy, dark and soft. *Cape* aloes are scarce, and in very scanty supply. Only about 10 cases were offered, of which 4 sold at 18*s.* per cwt. for ordinary, rather drossy. Ten very fine bright brown gourds of *Curaçao* aloes (Barbadoes character) brought 70*s.* per cwt.; and of 137 boxes *Curaçaos*, the greater portion sold at 46*s.* to 57*s.* for fair brown to fine selected liver, and at 7*s.* 5*d.* down to 13*s.* per cwt. for common drossy and discoloured.

AMBERGRIS.—Fine grey ambergris is said to be selling privately at 140*s.* per oz. Of the few lots offered at auction to-day one sold at 70*s.* per oz. for fair pale chalky of good flavour. Two tins very dark grey, rather unsightly, and of dull flavour, are limited, it is said, at 120*s.* per oz.

ANNATTO-SEED.—The recent advance has been lost again to-day. Sixteen bags West Indian were all bought in—bright at 2*d.* per lb. Ten bags good bright quality from New York sold at 2½*d.* per lb. Nineteen bags fine bright Ceylon sold at 2¾*d.*, a decline of about ¾*d.* per lb.

BALSAM TOLU.—We hear that this article is reported somewhat firmer from America. Sales were made here recently at 1*s.* 2*d.* per lb., but now there is a disposition to ask a penny more.

BUCHU.—The arrivals have been rather heavy lately, and several parcels were offered at auction to-day. The demand remains good, but prices show about ½*d.* per lb. decline. Six bales bright round green, slightly stalky leaves, sold at 4*d.* to 4¼*d.* per lb. A parcel of 25 packages is firmly held at 4¾*d.* per lb., and was all bought in. For yellowish leaves 3¾*d.* is the price; another lot of 3 bales good bright green sold at 4¼*d.* per lb.

CALUMBA.—The recent advance is fairly well maintained, and 40*s.* is still the price for fair bright mixed root. At auction to-day most parcels were firmly held, and of 138 bags 14 only sold at 37*s.* for medium to bold yellow mixed. For rather grey garblings the high price of 33*s.* per cwt. was paid; 15 bags ordinary rather wormy root are held at 27*s.* 6*d.* per cwt., an offer of 26*s.* 6*d.* being refused; and of 60 bags fair natural root 10 sold at 40*s.* per cwt.

CANNABIS INDICA.—The sales to-day comprised 104 packages, which were all bought in at 4*d.* to 5*d.* per lb. For fair greenish tops, somewhat stalky and dusty, 4¾*d.* per lb. was suggested.

CANTHARIDES.—Three cases fair but somewhat wormy China were disposed of at the low price of 10*d.* per lb.; a parcel of very small siftings was bought in.

CARDAMOMS.—In plentiful supply, nearly 300 packages being offered, of which about 50 consisted of seed; prices were rather irregular, but generally easier, Malabar kinds being mostly from 2*d.* to 3*d.* below valuations, while the heavy supply of seed caused a decline in that variety of from 4*d.* to 6*d.* per lb. The following prices were paid: *Mangalore*, MMM mark, fair full round pale are held for 3*s.* 3*d.* per lb. *Ceylon Malabar*, medium to bold round pale and full, 1*s.* 9*d.*; rather brownish, 1*s.* 8*d.*; small to medium pale to grey, 1*s.* 4*d.* to 1*s.* 5*d.*; smaller size ditto, 1*s.* 2*d.* to 1*s.* 3*d.*; dull and brown 1*s.* 1*d.* to 1*s.* 2*d.* *Mysore*, medium to very bold fine heavy pale and round, 3*s.* 7*d.*; medium size, 2*s.* 9*d.*; small to medium, 2*s.* to 2*s.* 2*d.*; and very small, 1*s.* 7*d.* per lb.; small to medium good heavy pale, 2*s.* to 2*s.* 1*d.*; medium to bold fine pale heavy round, 3*s.* 1*d.*; small size, 1*s.* 10*d.* to 2*s.*; brown and partly split and specky, 1*s.* 1*d.* to 1*s.* 2*d.* *Seeds* were mostly held at higher limits than were obtainable at the sales; the portion which sold brought from 1*s.* 4*d.* to 1*s.* 5*d.* for fair quality; one fine lot 1*s.* 9*d.* per lb.

COCA-LEAVES.—One small box weighing 12 lbs. from the West Indian Island of Grenada was offered to-day; a bid of 3*d.* per lb. will be submitted for it. The leaves are bold, rather dark in colour, strong and of fair flavour. The young plants were sent out from London to this island a few years ago. A parcel has also been received lately from the Niger district, but the leaves are not likely to be brought into the market, as they have been very badly cured. A quantity of 35 bales (2,130 kilos.) crushed leaves from Java will be sold at auction in Amsterdam on March 31.

CINCHONA.—Of South American *red* bark a consignment of 19 packages (about 1,300 lbs.) just imported from Guayaquil was offered. The quality was rather poor, and the whole sold with fair competition at 2*s.* 5*d.* to 2*s.* 7*d.* per lb. for split quill, brown colour, fair appearance, 7*d.* to 1*s.* 6*d.* per lb. for ordinary small and broken, and from 3½*d.* to 4½*d.* per lb. for common damaged. The auctions to-day did not include any South American bark of interest. One case of bold *Carthagena* bark brought 4½*d.*; one bale fair *Maracaibo*, 4*d.* per lb. Four cases fair red druggists' quills, from Java and Ceylon, were bought in. An offer of 4*d.* per lb. was refused for the latter. For next Tuesday's auctions 2,211 packages have been advertised thus far.

CUBEBS.—Twenty bags fair to good mixed, rather stalky, were bought in at 8*l.* 5*s.* to 3*l.* 10*s.* per cwt. The drug remain very slow of sale, and lower prices only could lead to business. For four bags rather stalky, but otherwise fair berries, 8*l.* 5*s.* would be accepted, but there were no buyers. For a good lot, not very stalky, imported *viâ* Amsterdam, an offer of 8*l.* 10*s.* was refused.

CUMIN-SEED.—Prices showed a decline to-day, when 30 bags fair *East Indian* seed were partly sold at 15*s.* per cwt. Good *Morocco* seed was bought in at 20*s.* per cwt. The demand was very slack.

CUTTLE-FISH.—Four cases Japanese cuttle-fish, very small but of good pale colour, sold cheaply at 1½*d.* per lb. to-day. Twenty packages from the Canary Islands were also cheaply disposed of at 2½*d.* for medium to bold fair white.

DILL-SEED.—Sixty bags from Bombay, good bright quality, sold cheaply to-day at 15*s.* to 15*s.* 6*d.* per cwt.

DRAGON'S BLOOD.—Fine qualities continue to command high prices, and for 5 cases fine fiery lump, medium to bold, a fresh advance of 10*s.* was realised to-day, this parcel selling quickly at 11*l.* per cwt. For another parcel of 9 cases very dull pale lump, almost without colour, 42*s.* 6*d.* was refused. Two cases good lump of bright colour sold at 7*l.* 2*s.* 6*d* per cwt.

ERGOT OF RYE.—Very little was offered to-day, but the few lots which sold showed a considerable decline. One bag of grey, pale and wormy small, German (?), sold at 1*s.* 6*d.*; wormy to good Spanish was bought in at from 2*s.* 2*d.* to 2*s.* 7*d.* per lb.

GALANGAL.—Much dearer since last offered. At the auctions 7 bags showed to-day sold, with competition, at 18*s.* 6*d.* per cwt. for fair quality.

GAMBOGE.—There has been a new arrival of 13 cases, which was offered at auction to-day, and of which 7 cases sold with good competition, without any alteration in price. For fine bright native-picked small pipe, 13*l.* 10*s.* was refused by the owners; fair broken pipe, rather dark mixed, sold at 12*l.* 17*s.* 6*d.*; and for pickings 11*l.* 7*s.* 6*d.* to 11*l.* 17*s.* 6*d.* was paid.

GUM AMMONIACUM.—The supply of this article, which until recently was very small, has now become abundant, several consignments having been imported lately. At to-day's auction 41 cases were offered, but only one sold at 30*s.* for small clean siftings. For good pale drop, partly blocky and small mixed, 46*s.* was the highest offer—the owners want from 60*s.* to 65*s.* per cwt. for it. One parcel consisted of three cases fine pale loose, partly conglomerated, drop, which was bought in at 80*s.* per cwt. Out of a parcel of 15 cases, 3 sold, clean small siftings at the high price of 58*s.*, which shows a considerable advance upon valuation. Tears, on the other hand, are fully 10*s.* lower, and were bought in—fine clean pale picked, partly blocky, at 85*s.* per cwt.

GUM ARABIC.—Six cases picked gum from Suakim were all bought in; the prices asked are 8*l.* for good, rather greyish, druggists' drop, and 4*l.* 15*s.* for medium, rather grey, grain. At to-day's auctions some fine *Aden* gum was offered; for 10 bales good pale clean bright an offer of 85*s.* per cwt. was refused.

GUM BENZOIN.—The demand remains fairly good, and at to-day's auctions the greater part of the 111 cases *Sumatra* gum offered for sale sold at steady, and in some cases dearer, prices. *Sumatra* seconds, fine bold almondy centres and good flavour, slightly false packed, sold at 7*l.* 10*s.* to 7*l.* 12*s.* 6*d.*; fine almondy centres, but rather dark sides, brought 6*l.* 15*s.* (a rather low price); more false-packed ditto, 6*l.* 10*s.* to 6*l.* 15*s.*; and fair grey almondy centres, rather unequal, in small boxes, 6*l.* 2*s.* 6*d.* to 6*l.* 5*s.* Of *Siam gum* 20 cases were offered, but mostly bought in, 2 boxes out of a small sample consignment of 3 boxes only finding buyers at 17*l.* 15*s.* for small to bold good loose almonds, rather drossy and woody mixed; and at 87*s.* 6*d.* for common dull block.

GUM ELEMI.—Thirty-nine cases genuine Manilla gum were offered, the first parcel of any magnitude which has been shown for several months; prices were about 3*s.* to 4*s.* lower, but only a few packages sold, fine white of excellent flavour at 44*s.*; the remainder, rather yellow and somewhat dirty, was bought in at 60*s.* nominally.

GUM MYRRH remains very scarce, and is held for high prices. For fair dark sorts 72*s.* 6*d.* was refused to-day, being 2*s.* 6*d.* below the limit; for fair pale native picked gum an offer of 5*l.* 15*s.* being refused. For one case of barely fair native picked gum 5*l.* 15*s.* was paid, and another case of very small dark sorts realised 52*s.* per cwt.; holders are firm, and seem to expect higher prices.

GUM OPOPONAX.—Three tins (120 lbs.) out of the parcel of "guaranteed genuine" gum which was offered for sale recently, were again placed in auction, and bought in at 50*s.* per lb. nominally. They showed small brownish grain, mixed with dark blocky drop.

HONEY.—Among the lots offered to-day were 11 cases Mexican honey in the comb, which have been repeatedly on sale before. They sold at 36*s.* per cwt. on this occasion. The drug is in good supply, but without change in value; of 12 packages Jamaica, six, thick brownish and rather dull colour, sold at 30*s.* 6*d.* Of 23 cases fair palish hard Chilian, a few lots brought 36*s.*; for fair bright Californian honey, 40*s.* was suggested, and a parcel of 50 cases so-called Utah, clean, pale, candied honey, in appearance like Chilian, was bought in at 50*s.* per cwt. Of 31 cases ordinary grey *Australian* part sold at 28*s.* per cwt.

IPECACUANHA.—The supply at auction to-day was very large, consisting of 96 packages, held by three different importers. Most of the root was of inferior quality, and very woody. One of the holders practically withdrew the whole of his parcel, the others sold the greater part. A total of 50 serons was disposed of at a decline of about 2*d.* to 3*d.* on fair, and about 4*d.* per lb. on ordinary qualities, as compared with the previous auctions. Fair to good fleshy sound sold at 7*s.* 10*d.* to 8*s.*; thin and woody ditto at 7*s.* 6*d.* to 7*s.* 9*d.*; damages at 7*s.* 1*d.* to 7*s.* 10*d.* per lb. There has been another arrival of 79 packages to-day.

JALAP.—Sales are said to have been made privately this week at 1*s.* 7*d.* per lb. for good Vera Cruz. At auction only 6 bales were offered. For fair heavy mixed sound Vera Cruz of mixed sizes, 1*s.* 6*d.* per lb. would have been taken.

KOLA-NUTS.—The sales included 26 packages African, which were all sold at low prices—viz., 3¼*d.* per lb. for fair dried; and 2*d.* to 2½*d.* per lb. for ordinary wormy and mouldy

MUSK found a somewhat better sale to-day, and out of about 20 caddies first pile Tonquin, 6 were disposed of at a slight advance of about 1*s.* 6*d.* for the best quality. Fine small to bold pods, thin blue, partly brown, skin with under-skin, well trimmed, slightly damp, sold at 60*s.*; and for another lot of the same kind, 58*s.* was refused. Of about 15 caddies third pile, 7 sold, at 22*s.* for dry, old-fashioned, fair pods, well trimmed, and at 18*s.* (which was very cheap) for damp and skinny pods.

OIL (CASTOR).—The sales of East Indian castor oil without reserve continue, and at to-day's auctions 253 cases were mostly "slaughtered" by this process, although no further decline in price occurred. Of first Calcutta, good pale, 175 cases sold at 3*d.* to 3⅛*d.* per lb. Good *Italian* was bought in at 4¾*d.* per lb., the price being 4⅝*d.* per lb. Of 58 cases fair Coconada, 20 were sold at 2¾*d.*, which is fully equal to the price last realised in sale by this variety.

OILS (ESSENTIAL).—Thirty cases Japanese *Camphor oil* of two 56-lb. tins were bought in at 27*s.* 6*d.* Of *Cajaput* two cases fair green colour sold without reserve at 2*s.* 4*d.* per bottle, another lot being bought in at 2*s.* 9*d.*; 50 lbs. of

Eucalyptus, fair quality, sold without reserve at the very low price of 2*s*. 2*d*. per lb.; for 26 cases native *Citronella* $\frac{13}{16}$*d*. was the limit; two 1-cwt. cases Spanish *Oil of lavender*, red-brown in colour and of somewhat rank flavour (a new import), were bought in at 5*s*. per lb. to-day—there was no bid; 10 drums of *Ginger Grass* oil of good flavour were bought in at 3*d*., and two drums of *Geranium* oil at 9*d* per oz.; four cases of American *Cedar wood* sold at 11½*d*. per lb.

PODOPHYLLIN-ROOT.—The 26 bags Indian root (all damaged) which were bought in at the last sales were offered again to-day. They were said to contain "10 per cent. of pure podophyllin;" nevertheless, buyers were not anxious to secure the lot, which was finally sold at from 25*s*. to 25*s*. 6*d*. per cwt.

QUICKSILVER.—The market is a shade easier to-day, second-hand lots offering at 7*l*. 1*s*. 6*d*. per bottle. The importers' price remains 7*l*. 2*s*. 6*d*.

QUININE.—Several parcels were offered at to-day's auctions. One of these, of 2,000 oz. Brunswick, in 100-oz. tins, of recent import, sold at 9¼*d*. to 9½*d*. per oz. Another lot of the same brand (1,000 oz.) was bought in, 9*d*. only being offered.

RHUBARB.—A fairly large supply met with a good demand to-day, and out of 84 cases offered 24 were sold. Round and flat mixed common *Shensi* pickings imported eight years ago at 8*d*. per lb.; and rough horny coated *high dried*, almost colourless, at 9½*d*. per lb.; for good medium to bold bright coated round Shensi, slightly wormy but fair fracture 1*s*. 10*d*. per lb. is the price. For medium to bold *Canton*, fair bright coat, three-fourths pinky, one-fourth dark fracture, round, 1*s*. 11*d*. was refused; small druggists' root brought 2*s*. 1*d*.; bold flat, 1*s*. 11*d*. to 2*s*.; small to medium, 1*s*. 8*d*. *High-dried* small to medium fair bright coat and fracture, but slightly wormy, 1*s*. 4½*d*.; ditto rough and wormy round, 10*d*. per lb.

SARSAPARILLA.—A parcel of 24 bales *Guayaquil* root was bought in; 9¾*d*. per lb. was bid for slightly damaged. Nine bales fair *Honduras* were bought in at 1*s*. 8*d*. per lb.; and 3 bales ordinary pale native *Jamaica* sold at 1*s*. per lb.

SENEGA.—Of 9 bales offered at auction to-day, 4 sold at 1*s*. 8*d*. per lb. for good bright root of fine flavour. The remainder was very common root.

SENNA.—*Tinevelly* is in very small supply, nearly every bale offered to-day being from second-hand holders. The limits were mostly too high to admit of business, but the quantity which was sold brought decidedly higher prices. Of 113 bales 54 found buyers at 3*d*. to 3½*d*. per lb. for fair medium green, and from 2½*d*. down to ¾*d*. per lb. for ordinary yellowish to very common discoloured. We understand that a good deal of business has been done privately this week. Of *Alexandrian* senna nothing was sold, 1*s*. 3*d*.; per lb. is asked for good whole green leaf.

TURMERIC.—A parcel of 72 bags China root, fair bright yellow colour, partly dark, was offered at sales to-day without reserve, and it sold at a decline of from 2*s*. 6*d*. to 6*s* upon the last valuation, being disposed of at from 12*s*. 6*d*. rising to 17*s*. per cwt. Of 45 bags bold split Cochin bulbs, 35 sold at 10*s*. per cwt.

WAX (BEES').—Nine packages *Jamaica* wax (which is very scarce) sold at higher prices to-day, 7*l*. 5*s*. to 7*l*. 10*s*. being paid for good to fine orange, and 7*l*. 2*s*. 6*d*. for fair brown and red mixed. A parcel of 45 bales bright brown *Benguela* wax was bought in without mention of price. There have been several arrivals of *Madagascar* wax, of which 79 packets were placed in sale; of these, 79 sold at 6*l*. 5*s*. for fine bright orange. Another heavy arrival of new *Madagascar* wax, consisting of about 550 packages, was mostly sold at a decline of about 2*s*. 6*d*. to 7*s* 6*d*. per cwt.; fine bright yellow and orange at 6*l*. 12*s*. 6*d*; good even chocolate and grey, 6*l*. to 6*l*. 2*s*. 6*d*.; ordinary dark, 5*l*. 17*s*. 6*d*. Three bags fair grey, partly dark, Zanzibar sold at 5*l*. 15*s*.; and two casks *Mogadore* of very doubtful character were knocked down without reserve at 61*s*. per cwt.

THE LIVERPOOL MARKET.

BORAX.—At auction some slightly inferior was bought in at 27*s*. 6*d*.

CHILLIES.—There have been further arrivals, but buyers rather hold back. Red and yellow mixed are held for 35*s*.; and fine red, 50*s*. per cwt.

CHLORATE OF POTASH maintains the recent advance; a few second-hand holders would still take 6¾*d*.; makers' price 7*d*., spot and forward. Other potashes are slow of sale at 23*s*. 9*d*. to 25*s*. *Pearl ashes* are in a similar position at 46*s*.

FENUGREEK-SEED.—One hundred and ten bags ordinary brown Egyptian at auction realised 9*s*. The market is again cleared.

GINGER.—A lot of *African* at auction found no buyers, and was withdrawn at 32*s*. A further parcel of 10 tons has arrived.

IPECACUANHA.—Seven bags Carthagena sort, just arrived per *Medway*, were offered at auction; 5*s*. 9*d*. was bid, but they were withdrawn at 6*s*.

JABORANDI-LEAVES.—A parcel second-hand brown sold at 8*d*. The market is bare.

OIL (CASTOR).—This article has been very animated during the week. Large sales have been made forward. On the spot and for near arrival price has gone up to 2¾*d*., at which a large quantity has changed hands. In French oil there is no change.

QUILLAIA continues to sell steadily at 26*s*. 6*d*.

SPERMACETI.—Small sales of Chilian (large boxes) have been made at 1*s*. 6*d*.

THE SMYRNA OPIUM MARKET.

(*Telegram from Our Correspondent.*)

SMYRNA, March 17.

THE purchases of opium by the American morphia makers have continued this week, 50 more cases of manufacturing opium having been bought by them this week at unaltered prices—viz., 6*s*. 9*d*. to 7*s*. per lb., f.o.b. Smyrna.

Gazette.

PARTNERSHIPS DISSOLVED.

Ramsay & Matheson, Great Shelford and elsewhere, surgeons.

Sharpin & Kinsey, Bedford, surgeons and apothecaries.

Wand, E., and Boyce, J. W., under the style of the Paignton Mineral Water Company, Paignton, aërated and mineral water manufacturers.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDERS.

Tanner, John, Queen Anne Street, W., and Newington Causeway, S.E., M.D., M.R.C.P., M.R.C.S., physician, in partnership with James, Barbour and Alexander M'Kean, under the style or firm of Tanner, Barbour & M'Kean.

Tebbs, Richard, Leeds, chemist's agent, formerly chemist.

ADJUDICATIONS.

Tanner, John, Queen Anne Street, W., and Newington Causeway, S.E., M.D., M.R.C.P., M.R.C.S., physician, in partnership with James Barbour and Alexander M'Kean, as Tanner, Barbour & M'Kean.

Tebbs, Richard, Leeds, chemist's agent, formerly chemist.

The following Amended Notice (Receiving Order and Adjudication) is substituted for that published in the "London Gazette" of March 8:—

Davis, Herbert, Balsall Heath, and **Harrison, William Allen**, Birmingham, trading in Birmingham, drysalters.

Correspondence

Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.

Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

Before writing for formulæ consult the last volume, if you have it.

Letters, queries &c., will be attended to in the order received.

Ext. Cocæ Liquid.

SIR,—I should like to offer a reply to the point raised by "An Old Subscriber" in your last issue on the above subject.

The sample which he designates No. 2 is undoubtedly that of the British Pharmacopœia, 1885, a preparation which is rendered unsightly by the existence in it of inert resinous matter, chlorophyll, &c., which the proof-spirit employed necessarily extracts, and is not, and obviously cannot be, miscible with water. A liquid extract similar to No. 1 may be prepared by removal of the resin, &c., after extraction of the leaves, and without in any way affecting the aroma or alkaloidal value of the product. A liquid extract prepared on these lines has the great advantage of being miscible with water and other fluids, and is, moreover, elegant, and far less nauseous than that of the British Pharmacopœia, 1885.

Yours truly,
JOHN C. UMNEY.

50 Southwark Street, S.E., March 14.

SIR,—No. 1 sample of the above, referred to in the letter of "An Old Subscriber," may be the variety known as *miscible*, which my firm has made for some years as suitable for the preparation of wine, &c. It is, as its name implies, miscible with water and will not deposit when diluted with a weak spirituous liquid; chlorophyll, wax, and resinous bodies are excluded in the process of manufacture. It is not the B.P. liquid extract, and should not be used in place of it.

The statement that your correspondent's sample No. 1 is labelled "B.P." suggests another explanation—viz., that during long keeping most of the spirit has evaporated and the liquid has dropped the constituents above-mentioned; this, of course, would make it much more miscible.

Yours faithfully,
Deptford, March 14. JOHN MOSS.

SIR,—My experience in the manufacture of ext. cocæ liq. is that, when prepared in accordance with the official instructions, a greenish-coloured product which precipitates with water is obtained.

Any chlorophyll-containing solid or liquid extract, of which latter coca is a fair type, is liable to lose its green tint and to become brownish if it be overheated either in point of time or in point of temperature.

There is, however, a good deal more in the manufacture of valoids, liquid extracts, and liquors than at first sight meets the eye, and it often results that the idiosyncrasy of the drug and the individuality of the manufacturer are not so incompatible as might be supposed.

All the same, an official declaration as to the colour and average specific gravity of liquid extracts would tend in the direction of uniformity and help to obviate the breaks in continuity to which your "Old Subscriber" has directed attention.

W. LLOYD WILLIAMS.

Phœnix Mills, Dartford.

SIR,—I have had the same difficulty as "An Old Subscriber," and have found No. 2 to be the B.P. preparation.

It is pleasant to notice the fact that manufacturing chemists are employing well-known pharmacists in the laboratory, and so preventing the too frequent mistakes which occur.

Yours truly,
London, March 14. G. R. (254/45.)

Destroy the Poor Cinchona!

SIR,—The present ruinous state of the cinchona-bark market is caused by over-production. Not only is the market overloaded with stocks, but the present rate of production exceeds what is required for consumption.

Producers, however, have the remedy in their own hands—by destroying all bark yielding under, say, 3 per cent. of quinine, or more than one-third of the total production. If they were to do this, what would be the probable effect on prices?

The following are the shipments and figures (roughly) for 1891:—

Shipments from	English lbs.	Under 3 per cent.	Per-centage	Remaining for Shipment
Java for 1891	9,000,000	2,520,000	28	6,480,000
Ceylon "	6,000,000	4,000,000	67	2,000,000
India "	4,500,000	2,025,000	45	2,475,000
Total ..	19,500,000	8,545,000	—	10,955,000

Bark, unlike most other produce, will keep for years. Lately some Cuprea which was imported years ago was put up for sale at a London auction. If large quantities, especially of the poorer kinds, are thrown on the market, they are bought up by speculative manufacturers or speculators and stored either for future use or to be resold in case of a rise in price. The effect of this is not only to depress prices for the present, but to keep them down for years to come. There is the danger, too, of a combination among buyers. This state of things can only be prevented by producers destroying, instead of shipping, their poor barks. Producers, therefore, have the remedy in their own hands. The present slight rise in price is caused by the increased demand for quinine, owing to the influenza epidemic. When this demand ceases, will not prices fall to their former level, or even lower?

Ledgeriana bark gives an average yield of 4 to 5 per cent. of quinine; Succirubra and other kinds, good renewed, over 3 per cent.; ditto, bad renewed (that which has been renewed more than, say, three times, and has become "corky" and fibrous), under 3 per cent.; ditto, natural, an average of under 2 per cent. of quinine. If the value of the unit is 1*d.* to $1\frac{1}{4}$*d.*, barks under 2 per cent. would fetch about 1*d.* per unit; barks under 3 per cent., about $1\frac{1}{8}$*d.*; barks over 3 per cent., about $1\frac{1}{4}$*d.* per unit. The expenses of harvesting, shipping, and selling come to about 20*l.* per ton. I will call barks yielding over 3 per cent. "good," under 3 per cent. "bad." I will class producers of Ledgeriana as No. 1, of different kinds as No. 2, of kinds yielding under 3 per cent. as No. 3. Class No. 1 need not be considered. The great majority of producers belong to Class 2, and may with profit study the following figures:—

Crop of Ten Tons.

3 tons 2-per-cent. at 1*d.* per unit	£56	
Less expenses of harvesting, shipping, and selling, at 20*l.* per ton	60	Loss £4
2 tons $2\frac{3}{4}$-per-cent. at $1\frac{1}{8}$*d.* per unit	£58	
Less expenses as above	40	Profit £18
5 tons 5-per-cent. at $1\frac{1}{4}$*d.* per unit	£291	
Less expenses as above	100	Profit £191
5 tons under 3-per-cent. destroyed.		
5 tons 5-per-cent. (average of good Ledger) at 2*d.* per unit	£466	
Less expenses as above	100	Profit £366

But would the value of the unit stop at 2*d.*, supposing the supplies to be reduced by one-third or more?

Class 3 are the chief producers of bad bark, and they have to consider whether (if it pays them at all) it will pay them best to continue to throw on the market their bad bark,

and so depress and keep down prices, or to cut down their trees and destroy the bad bark, in which case there would be a probability of prices rising and being really remunerative, when the suckers which would spring from the "stools" would have grown and would produce good. These planters should recollect that had barks had their day from 1877 to 1883.

Yours truly,

Crewkerne, Somerset, March 12. W. T. HODY.

A Minor Grievance.

SIR,—Allow me to draw attention to the actual working of the "New Regulations for the Minor." I was unfortunate enough to present myself with a number of others on the first day (February 23) at 10.50 A.M., and started with three hours of practical pharmacy and dispensing, adjourning from 1 P.M. till 2 P.M. for dinner. We then commenced our practical chemistry examination, which lasted till 5 P.M. At the close we were told to leave our present addresses, so that the secretary could communicate to us the date of the theoretical examination. On the following morning we had our notices to present ourselves "on the 25th inst. at 11.30 A.M. precisely." We did so, but were kept waiting ten minutes outside the back entrance of the Society's premises, in what formerly rejoiced in the name of "Pied Bull Yard," but which is now "Galen Place." When we at last got into the examination hall, we found that the Major men were already seated there, although they had been summoned for 11 A.M., but the officials did not put in an appearance until 11.45, when business commenced by the President calling up the Majors first, congratulating some and condoling with others. Then our turn came. About a dozen were sent off to different subjects, and then about fourteen of us were called up one after the other to the President's desk, and informed we had failed in practical chemistry. I think it a scandalous proceeding on the part of the Society to put candidates to the expense of staying in town for a couple of days merely to be called up and told they had failed. Why could not the examiners have looked over the papers the night of the practical examination, and in any case which did not come up to the standard notify the candidate that he need not come up for the theoretical? It appears to me that the Society cares little to what expense or inconvenience an examinee is subjected, so long as it gets the fees, which are now surely sufficient to entitle candidates to expect proper consideration. I trust those of your readers who are contemplating going up for the Minor shortly will receive better treatment than did your humble servant and the other martyrs on February 25.

I remain, Sir, yours truly,

A WOULD-BE MINOR MAN. (254/49.)

Why?

SIR,—I have never seen either of the following noticed, or anything at all similar.

(1) I dissolved 4 oz. camphor (from a bell) in 1 lb. of methylated chloroform. Temperature of the shop 52°; ingredients had been there some days. During solution temperature of the solution rose to 63°; on adding 3 oz. more camphor, thermometer sunk 2°, but while this second portion was dissolving it rose to 64°. On adding 6 oz. S.V.R. 50 o.p., about 3 drams of something clouded the mixture, and finally rose to the top. More spirit redissolved the water (?) which had separated and risen.

(2) Mix oxide of zinc with enough lard just to rub down the lumps, melt lard, adding by degrees more lard. The freshly added lard sinks when the oxide of zinc is stirred, while the melted lard is still warm, into it; any fresh addition of lard floats. Why? G. E. B. (256/48.)

LEGAL QUERIES.

250/62. *Smoker* says:—"In my indentures I signed not to open or carry on business, nor act as an assistant to anyone in business, within seven miles of a certain town, and if I did I consented to pay my master a sum of 100*l.* as damages (not as penalty). My father also signed, but he is now dead. Can he compel me to keep to this agreement, being then under 21 years of age?" [If the father covenanted that his son should observe the terms of the indenture, one of which was not to enter into competition with his master, the father's estate, notwithstanding his death, will be liable to pay the 100*l.* The more important point is whether the former apprentice can be restrained by injunction and himself made to pay the 100*l.* Under the Infants' Protection Act (1874) an action cannot be brought on a ratification of a promise made during infancy. There must be a new promise after majority attained. Capes *v.* Hutton (2 Russell, 357) was a case almost on all fours with "Smoker's." The defendant during infancy had been articled to a solicitor, and he and his father covenanted that defendant should not enter into competition with his master. The infant, when he was some years afterwards admitted a solicitor, set up in competition with his late master in breach of the covenant. The master applied to the Court for an injunction, which was refused.]

253/62. *A. B.*—There is no law to prevent you calling your preparation "Dr. Blank's mixture," but if there should be a Dr. Blank he might conceivably object and get an injunction to prevent the use of his name.

253/55. *Omega.*—The use of methylated spirit for tincture of myrrh is illegal. It would be no defence to say that you intended the preparation for veterinary purposes only.

254/16. *Peter.*—Any legally qualified apothecary, and any legally qualified medical practitioner who, in order to obtain his diploma, passed an examination in pharmacy, may keep a chemist's shop, and may call himself chemist and druggist without keeping a qualified assistant (see section 16 Pharmacy Act, 1868, and section 1 Pharmacy Act, 1869). The unqualified son of a deceased chemist and druggist, being his executor, may in this capacity carry on his late father's business provided he shall employ a qualified assistant.

254/8. *C. J. D.*—A farmer or shepherd making the prescribed declaration may obtain a certificate of exemption from the Excise duty on dogs in regard to dogs kept by him solely for use in tending sheep or cattle. Exemption may be claimed in respect of two such dogs on any enclosed farm, and in respect of a larger number up to eight dogs at the rate of one per 500 sheep. Forms of declarations for exemptions may be obtained from registered supervisors or from money-order offices.

251/47. *Apprentice.*—If a solicitor draws up the indentures for both parties it is usual for him to keep them until the expiration of the term. In other cases the master keeps them, but hands them over to the apprentice when he has served his time. The apprentice can claim them then.

255/37. *Chemist.*—The usual allowance to witnesses, other than professional men and artisans, at assizes is 1*l.* 1*s.* per day, in addition to travelling expenses and hotel bill, as paid, but there is no fixed scale. The taxing-master, under special circumstances, can allow what he thinks fit; for instance, a chemist who has to find a substitute whilst he is away, or is in a very large way of business, might receive an extra allowance.

255/34. *Alpha.*—The label for "Neuralgic Mixture" would not bring the preparation under the charge of medicine-stamp duty. See Alpe's "Handybook," pp. 87, 88, 89. The words "until relieved" are not a recommendation (p. 92), and the title "Neuralgic Mixture" is allowed by the Inland Revenue Department.

256/59. *M. D.*—Any legally-qualified apothecary, any person registered as a legally-qualified medical practitioner before 1869, or any person so registered since that date who, in order to obtain his diploma for such registration, passed an examination in pharmacy, is entitled to carry on

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the business of a chemist and druggist in Great Britain. There is no limitation in regard to such qualifications in the Act, so that Irish licentiates have the same rights as licentiates of colleges in Great Britain.

257/12. *D. O. E.*—The executor's power to sell a business depends on the provisions of the will under which he is acting.

257/11. *Yorks.*—You do not tell us anything which would justify criminal proceedings against your debtor. Not answering letters is not a criminal offence. You had better consult with other creditors, find out all you can about the debtor, and then employ a good business-like solicitor.

MISCELLANEOUS INQUIRIES.

Inquirers will please read the "Memoranda for Correspondents."

A list of "Books for Chemists" is given in THE CHEMISTS' AND DRUGGISTS' DIARY, *p.* 317.

For all particulars regarding Educational and Examinational matters refer to our issue of September 19, 1891.

Replies to queries are inserted according to the space open in any week, and insertion on any specific date cannot be guaranteed.

Back numbers of our weekly issue, containing formulæ, &c., occasionally referred to in answers, can be obtained from the Publisher at 4*d. each.*

243/8. *Bismuth* sends a sample of Digestive Powder, which is reputed to be very efficacious. It is stomachic and corrective, and appears to have the following composition :—

Bismuth. subnit.	ʒj.
P. canellæ	ʒiv.
P. cinnam. co.	ʒj.
Magnes. carb. levis	℥j.

Mix the first three ingredients well together by trituration; then add the magnesia, and sift.

Half a teaspoonful of this for a dose, to be taken about half an hour after meals, when flatulence and eructations are disturbing.

152/92. *X. Y. Z.*—There is nothing distinctive about the cattle-foods which you send, and it would take more than a week's continuous work to distinguish the ingredients microscopically, as they are all of vegetable origin.

243/63. *Colourless* sends us a sample of Colourless Chlorodyne, made by Mr. Woodliffe's formula (THE CHEMIST AND DRUGGIST, vol. xxxiv., page 494), the Indian-hemp tincture being omitted. This ought to give a perfectly colourless preparation, and as a matter of fact it did; but after standing a few days it assumed a pale-blue colour. "Why is this, and how can it be prevented?" our correspondent asks. That is not an easy point to determine by the examination of a ʒij. sample; but it is questionable if much can be determined by analysis. Hydrocyanic acid in presence of ammonia is decomposed into azulmic acid, which on oxidation yields compounds more or less blue. The close relationship between morphine and ammonia suggests that some such decomposition as this has occurred in the chlorodyne, but it can only be exceedingly infinitesimal in amount. Has any other subscriber ever observed this or a similar change?

244/62. *Verax.*—You misunderstand the purpose of our analysis of specimens submitted to us. It is to extract information of general interest. Nothing of this nature can possibly result from mere exercises of identification such as you give us. Your powder is one of the most common B.P. chemicals—viz., bismuth subnitrate. You could have ascertained that in five minutes, or less, yourself, and saved delay into the bargain. These remarks are made for the benefit of others besides yourself—"H. H." (33/92), for instance, who sends samples of two liquids, which he has found in his shop unlabelled or with the names obliterated. We could keep half a dozen analysts at work constantly if we were to encourage this sort of thing. We are always pleased to assist subscribers, as individuals, but they should not overlook the fact that as soon as THE CHEMIST AND DRUGGIST begins to pay more attention to individuals than to the whole body of its subscribers, it will cease to be, strictly, the organ of the trade.

23/92. *Croton* sends a sample of a Fistula Liniment made by a veterinary surgeon of the old school. It is used with "great success" in the Bristol district, and is as nasty-looking a preparation as one would wish to use, even for horses; which may be judged from the fact that it is, apparently, a mixture of three parts of black oils and one part of solution of ammonia.

245/64. *Nemo* (Keighley).—A Horse-condition Powder like yours can be made as follows :—

	Oz.
Flowers of sulphur	8
Powdered liquorice	8
Powdered fenugreek	6
Nitrate of potash	4
Powdered ginger	3

Mix.

23/921. *Polish.*—The Brass-polish appears to be a mixture of tripoli and linseed oil—20 grains of the former to the ounce—a little rouge being added to bring up the colour. In the absence of tripoli, rottenstone and rouge will do.

247/63. *J. J. B.*—(1) Without the liquid, your query comes under the class referred to in the reply to "Verax." Precipitated chalk alone, which the powder is, could not remove varnish from electroplate; probably "the liquid" is a solution of soda.

250/100. *Sussex* is in trouble about a Hair-balm. He has a nice label, showing that his preparation is "specially useful for promoting the growth, arresting decay, &c." It is to do all this, is to be called "Sussex's," is to be used in "illnesses," and is to be sold at a shilling. Our first point is, take care of the Inland Revenue officers, "Sussex"—they may want you to stamp the balm, and will give you no warning. The formula submitted by "Sussex" is :—

Quininæ hydrochor.	gr. vj.
Liq. epispastici	♏viij.
Tr. arnicæ	ʒiss.
S.V.R.	℥iv.
Aq. rosæ conc.	℥ij.
Aq. ad	℥viij.

Ft. lotio.

That is a harmless preparation, but it will never raise a hair; it is simply a wash, and no more. Better, in some respects, is the sample which "Sussex" sends of a wash "for the hair," which is very popular just now. This, we find, contains pilocarpine, and we should make a similar article from the following formula :—

Pilocarpine	gr. ij.
Dilute hydrochloric acid	ʒj
Glycerine	ʒiij.
Rectified spirit	℥j.
Lavender water	ʒiij.
Water to	℥vj.

Dissolve the pilocarpine in the spirit and lavender, and add to the other ingredients, previously mixed.

We may add that quinine is not a bit of good as an application for the hair. It is of greater benefit when taken internally.

251/23. *W. G. S.*—The Suction-powder used for the purpose of keeping artificial teeth in position is powdered dextrin, not starch.

255/38. *Ytab.*—As far as we are aware the coloured transparencies are first printed with soluble colours and then treated with a quick-drying oil or flexible resin varnish to give transparency.

249/25. *Inquirer* makes a Baking-powder by the following formula:—

	Oz.
Bicarbonate of soda	2
Ground rice	2
Tartaric acid	1½

Mix.

"A customer complains that it spoils everything she makes, by turning them a dark colour." We are asked, "Has anything been mixed with the powder?" The excess of alkali in the powder is almost sufficient to account for the colour of the baked goods, although the flour may also have something to do with it. Baking-powders should be as nearly as possible neutral. The ideal quantities of soda and acid to aim at are bicarbonate of soda, 8½ oz, and tartaric acid, 7½ oz. (2) The Preservative for Cream, &c, is Boracic acid.

249/69. *Edinburgh.*—You must try a little synthesis in order to imitate the Ginger-Ale Essence. You will have noticed that it contains an unusual amount of capsicin. Work on the following basis:—

Soluble essence of ginger	℥viij.
Capsicin..	ʒss.
Tincture of Tangerine orange	℥ij.
Essence of apricot	ʒij.

To this you may add a little oil of cinnamon, but you will get at the exact flavour by experiment. Probably you may require a dash of spt. æther. nit.

255/10. *Ginger.*—See reply to "Verax."

253/58. *R. A. P.* (Punjaub).—The pilocarpine lotion mentioned in reply to "Sussex" would suit the purpose. Lead and sulphur lotion simply restores the colour of the hair.

250/14. *Subscriber* (Birmingham) is troubled with an Aërated Beverage Becoming Ropy. It contains a vegetable infusion as well as sugar and alkalies. This trouble is generally traced to the use of impure materials; but the nature of the composition in "Subscriber's" case has probably more to do with the matter, and he does not appear to use any antiseptic whatever. Salicylic acid should be added in such proportion that the finished beverage may contain one grain in each pint. The syrup should be boiled, and the ingredients added to it after straining, or, if that is not possible, place the hot syrup in a clean jar, cork, and add the ingredients as soon as possible. The salicylic acid may be dissolved in spirit, but preferably in the hot syrup.

247/69. *Liverpool.*—Soluble Essences.—No official order extending the drawback system to perfumes made outside bonded warehouses has yet been issued, but it is expected shortly. It is expected that the articles upon which drawback is to be allowed will include culinary and flavouring essences. See *C. & D.*, February 20, p. 274.

245/32. *Alpha* (Wolverhampton).—Tallow and Shellac Marks.—The letters "PYC" as applied to tallow signify "St. Petersburg Yellow Candle"; "AC" in the shellac trade stands for "Angelo & Co." of Calcutta, the manufacturers of the garnet lac which bears their initials; while "TN" is the mark of an orange shellac which is taken as the standard quality. We believe that the letters "TN" are not the initials of any particular firm.

250/62. *Ignoramus.*—Nitrite of potassium is KNO_2. Try your wholesale house.

249/35. *Yorks.*—The deposit in French Polish and Spirit Varnish made from shellac is wax; the presence of this is not detrimental for polishing, but the varnish should preferably be filtered. That is seldom done, however.

262/30. *J. H.* (Manchester)—See August 1, 1891, page 198, for a recipe for veterinary white liniment.

266/5. *H. C. T.*—A formula for the sauce was given on February 27.

253/27. *Puzzled.*—African Ginger.—You will find notes on this rhizome in our market reports of January 9, page 57, and January 16, page 88. The rhizome comes from the Niger, it is a curcuma, and it has been offered as "white hellebore" as well as "African ginger."

Anonymous Querists.—Although we are careful to intimate every week that all correspondence addressed to us should be accompanied by the names and addresses of the writers, we still get queries from persons who pay no attention to our rules. Amongst those lately received are 240/55 *Savon*, 244/45 *Alpha*, 251/26 *Constat*, 252/6 *Black Prince*, and 255/73 *J. L. W.*

272/5. *Folio.*—(1) A folio ream of paper is a printer's ream of 80 quires. (2) You will find good formulæ for Boot-polishes in our DIARY for 1891, page 166.

248/41. *Rohur.*—Custard-powder is corn-flour (Oswego) coloured with saffron, and flavoured with lemon or bitter almond. We make no charge for analyses, but do not in any case guarantee a report. See reply to "Verax."

248/61. *Cambric.*—Nitric-acid stains can generally be removed with ammonia, and we take it that the stains which you refer to are really due to the acid of the solution.

249/12. *Alpha* (St. John) asks if the following would make a good Cough-mixture:—

Antimon. tart...	gr. $\frac{1}{24}$
Ammon. chlor...	gr. iij ½
Ext. hyoscyam. fl.	♏iv.
Ext. marrub. fl.	♏iij.
Spt. chloroform.	♏iv.
Ess. anisi	♏ij.
Syrupi ad	ʒij.

M. One dose.

It is not a bad mixture from a therapeutic point of view, and has the virtue of containing no opiate. We should improve it only in the direction of thinning. Dissolve the tartar emetic and sal ammoniac in 6 minims of distilled water; add to ʒiss. of syrup, mix the fluid extracts with 10 minims of spirit of chloroform, add to the first portion, and make up to ʒij. with syrup.

Goods Wanted.

Replies to the following should be addressed to the Editor, who will forward them to the inquirers.

242/57. Makers of golden-orange aniline dye (oil-soluble).

256/41. Fluid magnesia in syphons: who sells?

250/21. Stearine oil: what is it, or where obtainable?

254/62. Lily-bulb juice, said to be used in King's Lynn for chapped hands, &c.: maker or formula.

254/71. Tebbutt's percolator: where now obtainable?

256/39. Capsule-moulds: who makes?

Information Supplied.

How to Mix Drinks, &c.—In reply to 237/11, Messrs. Oscar Sutton & Co. say that the book by Jerry Thomas (January, 1862. New York: Dick and Fitzgerald, publishers, No. 18 Ann Street) gives a complete description of the various American drinks.

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For "charts" and other dry forms. An absolutely permanent Pepsin, free from all foreign odour and taste.

Digestive power, 2,500 times its weight.

In 1-oz., 4-oz., and 8-oz. Bottles and 1-lb. Tins.

No. 2.—**SCALE PEPSIN & THE SAME POWDERED** (*Soluble*).

Especially useful in preparing liquid forms. Soluble in water, and absolutely free from objectionable odour and taste.

With ordinary care is permanent, and retains its activity indefinitely.

Digestive power, 2,500 times its weight.

In 1-oz., 4-oz., and 8-oz. Bottles and 1-lb. Tins.

No. 3.—**GLYCEROLE PEPSIN** (*Concentrated*).

A clear and permanent glycerin solution, 10 minims of which are the equivalent of 1 grain of our scale pepsin, possessing a digestive activity of 2,500.

This fluid pepsin is admirably adapted for use at the prescription-counter and in the pharmaceutical laboratory, in that it obviates the necessity of weighing and filtering when preparing liquid combinations.

In Pint Bottles and 2-gallon Jugs.

Combines elegance of preparation with prompt and certain action. Armour's Glycerole Pepsin is the ideal liquid Pepsin.

No. 4—**PURE PEPSIN TABLETS.**

A convenient dosage form.—Each Tablet contains 3 grains Armour's Pure Non-Hygroscopic Pepsin.

In Flat Bottles for Pocket, each containing 75 Tablets. Put up in Cases containing One Dozen Bottles.

No. 5.—**PURE PANCREATIN** *in Powder.*

For internal administration.

In 1-oz. Bottles and 1-lb. Tins.

No. 6.—**PEPTONISING TABLETS** *of Pure Pancreatin and Sodium Bicarbonate.*

For peptonising milk and other foods for infants and invalids. Each Tablet contains 2½ grains pure Pancreatin, and 8 grains Sodium Bicarbonate.

These Tablets will be found uniformly reliable.

In Tubes containing 15 Tablets Put up in Packages of One Dozen Tubes.

Recipes for pre-digesting foods are furnished with every bottle.

No. 7.—**GLYCERINE SOLUTION OF RENNET.**

In Pint Bottles and 2-gallon Jugs.

—**POWDERED RENNET.**

1-oz. Bottles and 1-lb. Tins.

For Curdling Milk.—Formulas supplied for making Essence of Rennet.

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Armour & Co. slaughter over 700,000 head of cattle annually, which provide them with facilities unequalled by any other Manufacturer in the world.

Armour's Process retains the True Natural Flavour of Fresh Beef, and its Stimulative and Nutritious Properties. It is guaranteed to be Pure Beef Essence, and invalids relish it when all other forms of nourishment nauseate. Gold Medals and Highest Awards at all Exhibitions. Adopted by H.M. and U.S. Governments, also for Hospital use. Packed in ½, 1, 2, 4, 8, and 16 oz. jars.

Supplied in tins in limited quantities to our customers for compounding.

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STRENGTH
NOURISHMENT
REFRESHMENT

A fluid preparation made from Armour's Extract of Beef, further strengthened in muscle-forming constituents by the addition of Pure Beef in Powdered Form, and suitably seasoned. In 2, 4, 8, and 16 oz. bottles.

Under similar conditions Armour's Digestive Ferments exhibit greater activity than any other Manufactured.

Special Quotations in bulk. Samples and descriptive matter on application.

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The manufacture of Soluble Pearl Coated Pills was first introduced into Leicester by Mr. T. HOWARD LLOYD (18 years partner in the firm of JOHN RICHARDSON & CO.), and they are now made with the most complete and modern machinery, ensuring accuracy and uniformity, by

T. HOWARD LLOYD & CO. HIGH STREET, LEICESTER.

SOLUBLE PEARL COATED PILLS

Special NET CASH List.

In Ten Gross and One Pound Tins for CASH WITH ORDER.

	Per gross.	Per lb.
Pil. Aloes et Ferri, P.B.	6*d.*	4/–
,, Colocynth. Co., P.B.	11*d.*	8/–
,, Colocynth. et Hyos., P.B.	1/1	9/–
,, Rhæi Co., P.B.	6*d.*	4/3
APERIENT. 105 (*Each Pill contains* $\frac{1}{3}$ *gr. of Calomel*)	6*d.*	4/3
106 As No. 105, with 1 gr Calomel in each Pill	6*d.*	4/6
107 As No. 105, without Calomel	6*d.*	4/3
110 Hospital Pills, each containing $\frac{1}{2}$ gr. of Calomel	6*d.*	4/6
ANTIBILIOUS.		
62 Hydrarg. Pil. gr. i; Ext. Coloc. Co.; Pil. Rhei Co. aa. gr. ij.	1/–	8/6
262 Podophyllin gr. $\frac{1}{2}$; Ext. Coloc. Co. gr. ij.; Ext. Hyoscy. gr. i.	1/2	10/–
COUGH.		
164 Pulv. Ipecac. Co.; Pulv. Gum. Ammon. aa. gr. iss.; Pulv. Scillæ gr. i.; Saponis Hyspan. gr. ss.	7*d.*	5/–
167 Pulv. Ipecac.; Pulv. Scillæ aa. gr. $\frac{3}{4}$; Pulv. Capsici; Pulv. Opii aa. gr. $\frac{1}{4}$; Pulv. Gum. Ammon.; Ext. Colii aa. gr. i.	8*d.*	5/6
CASTOR OIL.		
289 Rhei Pulv.; Potass. Sulph. aa. gr. iss.; Pulv. Sapo. Hysp.; Ol. Ricini aa. gr. ss.; Ol. Crotonis gr. $\frac{1}{16}$	6*d.*	4/–
TONIC. 370 (*Blaud's Formula*)	6*d.*	4/–
371 (*Blaud's Formula, Martindale's improved*)	6*d.*	4/–
"LITTLE" APERIENT. 458	5*d.*	20/–
"LITTLE" ANTIBILIOUS. 462	5*d.*	20/–

Samples of the above with our Complete List sent on application.

In ordering, please note Address, and see that the Label on each Bottle or Tin corresponds with the above Block.

PILL-MAKING BY MACHINERY.

From THE CHEMIST AND DRUGGIST, January 30, 1892.

Pharmacist and pill-maker were wont to be synonymous terms; they are still, but how long they will remain so is another matter. "The old order changeth" is as true of pharmacy as anything else; and in this instance it is pharmacy only and not the public taste that is changing, for if there is one thing that The Chemist and Druggist has lived to prove it is that the public is an inveterate and prodigious pill-taker. It is difficult to realise what this means until one gets into touch with a great pill-producing centre, such as we have in Leicester, which may be regarded as the headquarters of the pill-industry in England. In the rattle of the machinery and the heart-throbs of the steam-engines driving it, we get nearer to the pulse of the industry than in any other way. We recently had an opportunity of judging this pulse in an interview with Mr. T. Howard Lloyd, who has been associated with the Leicester industry for more than twenty years, and has recently started on his own account in Leicester. Mr. Lloyd is one of the pioneers of machine-made pills, and knows a great deal more about them than he was inclined to tells us. Although the venture upon which Mr. Lloyd is now engaged depends largely upon the business in coated pills, he informed our representative that his firm are developing a satisfactory wholesale druggists' business, and they have one large section of their works solely devoted to the manufacture of liquid galenicals. One feature of the business is that the firm started straight away by appealing to the drug trade, so that the medical connection and the pharmaceutical go pretty closely hand in hand. In the pill-making department the firm started very fully equipped, and we are able to give some note son their methods of working, up to the critical point.

The first thing that strikes one about such a factory as this is the great similarity which the methods employed have to those of the small scale. Of course small masses, those of a pound or two

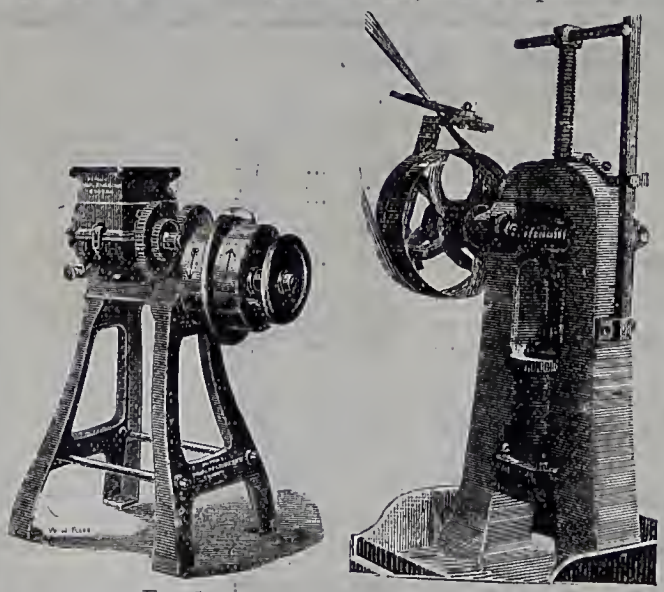


Fig. 1. Fig. 2.

or less, have to be made in the good old-fashioned way, with mortar and pestle, and the only royal road in Leicester to making the good masses is experience. When larger masses have to be treated the kneading method comes in. This is a method almost unknown in the retail trade. Yet it is very satisfactory. The table is of iron, and the kneader is attached to it by a swivel, which enables the workman to put an immense amount of force upon the tool (see two in large illustration), blending the ingredients of the mass thoroughly. A principle not very much different is followed in Werner & Pfleiderer's kneading and mixing machine, which Messrs. Lloyd & Co. have also in use (fig. 1). The kneader of this is like three blades of the hand-kneader, twisted in such a way that, when backed with steam-power, the revolutions are so strong and rapid that pill-mass can be turned out at the rate of a pound a minute, which seems a little more than a reasonable community can absorb.

All the rest of the pill-machinery must be worked up to this high standard. For instance, in making Blaud's pills, which of recent years have become one of the main props of this industry, Mr. Lloyd says the great thing is to get the materials into coated pills with as little loss of time as possible, so after putting on full steam on the kneader the ferruginous mass is passed through the most rapid piper (fig. 2). An ordinary piper can do its work pretty quickly, in five minutes or so preparing a pound of mass ready for cutting; but a steam-piper is as great an advance upon the hand one as that is over the rolling method; so through the steam one the Blaud's pill-mass goes.

We take it that most of those who read this are aware of the structure of these piping-presses. In the bottom of the cylinder a perforated plate is placed, then the pill-mass; a circular plate is put on the top, and as pressure is applied the mass comes away from the bottom in ropes or strings of regular diameter. One is apt to imagine that the pipes will be of irregular density, but this is not the case, and as the perforated plates are carefully gauged as to sizes, it is possible for an experienced person to regulate the division of any pill-mass almost with as much accuracy as by weighing the portion for each dozen of pills. Messrs. Lloyd & Co. have about half-a-dozen hand piping-presses at work and one steam one. The figure of the latter (fig. 2) almost explains the working of it. Steam is in this case required as much for *force* as for *speed*, and as several pounds of mass are passed through the press more quickly than the press can be charged, there is an "off and on" arrangement for the driving belt, which the workman has to use pretty frequently.

The mass has still to go through three processes before the pills made from it are ready for coating. First there is the cutting. For this Pindar's machines are used. The style of them and the manner of working are shown in fig. 3. The grooved cylinder of each machine has an inclined plate attached to it down which the pipe, cut to the proper length, slides. The grooves of the cylinders vary in size, of course, according to the size of pill desired. All the cutters are worked by steam-power, and in an incredibly short time the piped masses are transformed into pills. Now comes the process of rounding, for which a very ingenious machine is used.

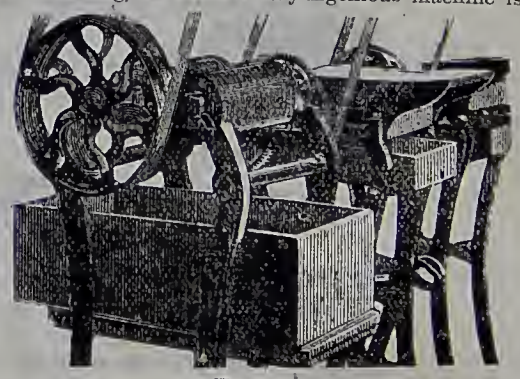
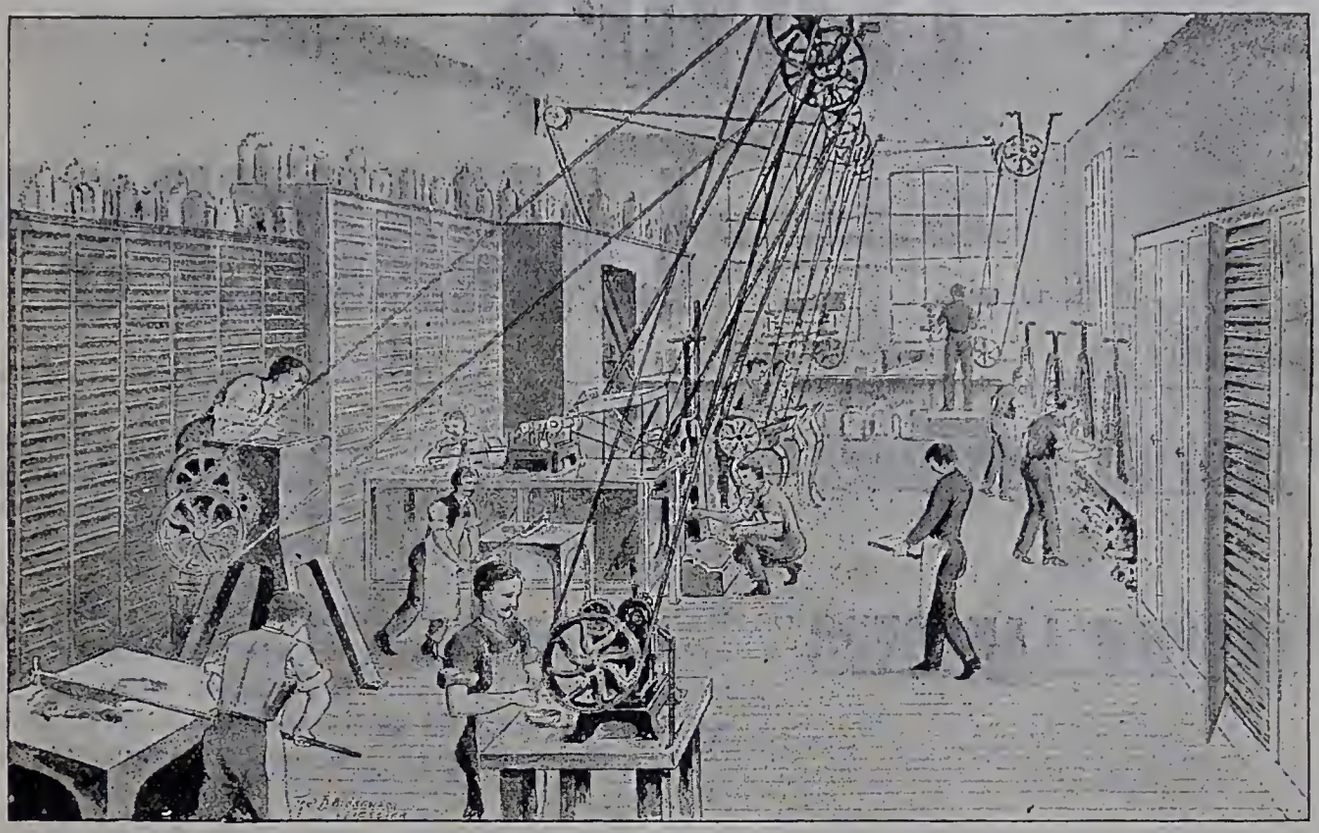


Fig. 3.

This is an accurate application of the movements of the hand in rounding pills, but there is added to that a movement of the plate upon which the pills rest. The apparatus looks rather complicated, but fig. 4 will enable us to describe it. The pills are put into the wooden hopper A, from which they roll gently down into B, the hollow piston of the upper plate of the rounder, which is

By HOWARD LLOYD, LEICESTER.



PILL-MAKING DEPARTMENT.

situated immediately below. After rotating for a few seconds between the two plates (which can be adjusted to suit any size of pill) the pills roll out at c. This is a very ingenious machine which we have seen at work in several factories, and it appears to answer its purpose admirably. It always happens, however, that in a large batch some pills are too large and some too small, and before the batch can be coated the badly-formed pills have to be separated from the perfect ones. To do this by hand would be a wearisome task, and Messrs. Lloyd & Co. employ for the purpose one of the automatic pill-picking machines made by Messrs. Herbert & Hubbard, which we described a few years ago. This machine (fig. 5) is really a series of moving inclined planes, with traps all the way down for small pills, oval pills, knobby pills, and all the order of the unregenerate, so that only the perfectly rounded pills of the proper size are able to travel down the whole length of the moving inclined planes.

When we described this machine (The Chemist and Druggist, March 30, 1889), we mentioned, from practical experience, that it did its work perfectly, the truly globular pills not only being

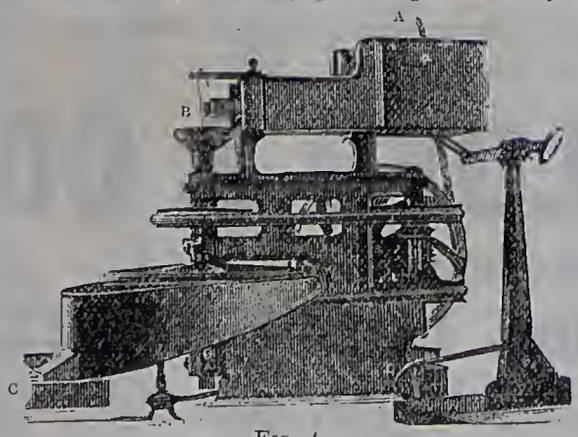


Fig. 4.

separated from the imperfect ones, but all that were "picked" as correct in this respect were also of the desired weight. It can be judged from this how much care is bestowed in ensuring that machine-made pills are exact.

After this selection the pills are transferred to large flat trays with perforated zinc bottoms, and are taken to the drying-department, where they are placed in drying-cupboards, such as are shown at the sides of the large engraving. Here a regular and

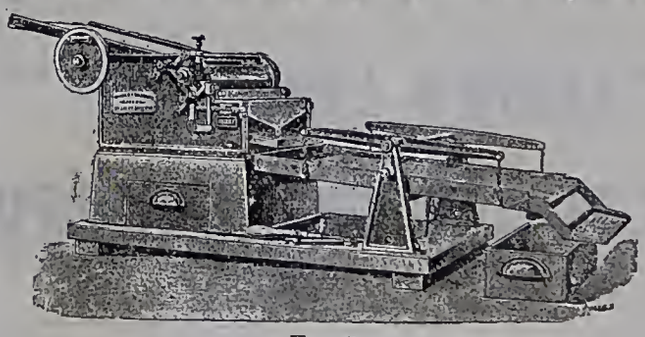


Fig. 5.

moderate heat is applied until the pills are sufficiently dried to receive the coating.

The coating composition which is used for the pills is Mr. Howard Lloyd's invention, and he prefers to keep its nature secret; but he assures us that this composition is of such a nature that "it ensures rapidity of solution, and at the same time permanence in all climates, combined with a most elegant polished appearance, without the use of impervious varnishes." The coating-apparatus—well, that is another thing of Mr. Lloyd's design, and we are not able to figure it. But sufficient has been said to show the immense amount of care required in making pills on the large scale.

As to the products turned out from Messrs. Lloyd & Co.'s factory, we are able to confirm the above-quoted statement. We have examined a number of samples, such as pil. phosphori, pil. rhei co., Blaud's pills, &c., and we have been struck with the fresh appearance and sound characteristics of the masses. Blaud's pill, for example, is of a pale green colour throughout, the surface being no darker than the centre, showing the protective influence of the coating. And this coating, we may say, readily disintegrates even in cold water, and exceedingly rapidly in plain water at 90° F. The appearance of the pills is bright and handsome, being altogether good examples of elegant pharmacy.

"LLOYD'S LANADEPS"

"LLOYD'S LANADEPS" Is Wool Fat, specially purified, and answering all the tests of the British Pharmacopœia. It is very stable, and remains unchanged after boiling with alkalies. It contains 30 per cent. of water, and is capable of absorbing at least 50 per cent. more.

"LLOYD'S LANADEPS" Is a most valuable preparation as a basis for Ointments. Its purity renders it unirritating to the skin, and it has a marvellous power of rapid absorption, thus making it particularly valuable for the application of such drugs as Mercurials, Iodide of Potassium, Iodoform, &c., &c. In the manufacture of Toilet Soaps, Pomades, Cold Cream, &c., &c., "LLOYD'S LANADEPS" is invaluable.

"LLOYD'S LANADEPS" The chief hindrance to the general use of preparations of this character is the fact that the prices charged have been excessive "LLOYD'S LANADEPS" is put up in 1-lb. tins, price 1/4 each 7-lb. 1/2; 28-lb. 1/1; 56-lb. 1/- per lb.

"LLOYD'S LANADEPS" (Anhydrous), in 1-lb. Tins, 2/- each.

"LLOYD'S UNG. LANADIPIS" Is a cheap Ointment basis made with "Lanadeps," but of a softer consistence.
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The subjoined Illustration will save us a deal of explanation as to the salient features we claim for LIQUOR CARNIS (CAFFYN) (solution of Uncooked Beef Juice) in comparison with Extracts of Beef prepared by the established process, necessitating continuous stewing and consequent exclusion of the principal albuminoids, as will be seen by a glance at the Test-tube Diagram.

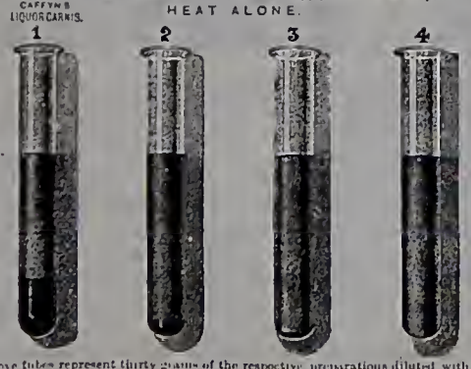
ALBUMINOIDS IN MEAT ESSENCES.

Professor J. Alfred Wanklyn, M.R.C.S., Lond., Professor of Chemistry, Corresponding Member of the Royal Bavarian Academy of Sciences, &c., &c.

With the object of demonstrating the comparative amount of natural unchanged albuminoids, or true nourishing proportion contained in some of the chief preparations of Concentrated Fluid Meat Essences now in use, the following simple method was adopted, and which the appended illustrations faithfully demonstrate.

No. 1 is Caffyn's Liquor Carnis; 2, 3 and 4 are the best-known meat preparations in the market. We have withheld names, but will supply them if called upon

CAFFYN'S LIQUOR CARNIS. HEAT ALONE.



The above tubes represent thirty grains of the respective preparations diluted with ninety minims of distilled water, boiled for three minutes, and allowed to stand for six hours.

HEAT AND NITRIC ACID

The four lower tubes represent similar materials and proportions, boiled for three minutes, after the addition of ten minims of pure nitric acid. From this demonstration it is evident that CAFFYN'S LIQUOR CARNIS contains a much greater proportion of *pure unchanged albuminoids* (the nourishing material) than any of the other preparations; 3 and 4 giving almost negative results, the process of manufacture having *entirely changed* or *destroyed* them.

These experiments were conducted originally by a well-known Physiologist in London.

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2/6 Tin, or 22/- Dozen Tins, usual Discount.

The CHEMIST & DRUGGIST, Feb. 20th, 1892.—CARNIS SUPPOSITORIES (CAFFYN'S):—"In our report of the last British Medical Association 'Museum' we had occasion to refer to the Suppositories made by the Liquor Carnis Company, Ltd., from raw beef juice. Our examination of Caffyn's Carnis Suppositories shows that they are an elegant pharmaceutical preparation. A solution of the basis in cold water is clear, has the peculiar odour of raw beef juice, and coagulates on heating. We find that a Suppository melts in water heated to 33-34° C. (91·4-93·2° F.), liquefaction taking place in a few seconds, but a dry heat of the same degree has not this influence. It is evident, therefore, that while the Suppositories are permanent in the air, they are produced in a condition favourable for the absorption per rectum of the nutrient principles of which they are composed."

OUR READERS.

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If you decided to work with us in this way, and will send to us a complete list of the Men you would select for specimens, we will put the necessary machinery in motion at once.

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In the dyspepsia of patients dependent upon some organic disease, and where there is a decided loss of nerve power, it is of singular service. Thus, for instance, a person after a meal complains of a peculiar gnawing and emptiness, with slight pain at the epigastrium, evident signs of general relaxation and loss of nerve power, clinical experience has shown that it is of great service as a tonic and stomachic. A portion of its value arises, it may be, from its action upon the spinal motor nerve centres. But these things as they may, experience has abundantly demonstrated the value of the compound as a stomachic, anti-dyspeptic, and tonic, in general functional atony and relaxation, and in the various forms of dyspepsia, constipation, or diarrhœa, connected with atony of the visceral muscular coat, the Mist. Pepsinæ Co. c. Bismutho is a very valuable remedy. In the *exhausting purging of Phthisis*, accompanied with night sweats and restlessness, Dr. Mathews, of Nantwich, has used it with marked and appreciable effect

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BLAUD'S PILL, 5*d.* per gross (net). LIVER GRANULES, 5*d.* per gross (net). APERIENT, 6*d.* per gross (net). QUININE, 1-grain, 1/ per gross, 2-grains, 1/9 per gross (net). All for 10-gross lots.

WYLEYS' OVAL GELATINE-COATED PILLS. "Still the best." Useful for Specialities. List on application.

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"Air-tight, Soluble, Elegant, and Economical."

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MALTO-RICINOL

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Possessing the well-known aperient properties of the finest Italian Castor Oil, combined with the Tonic and Digestive characteristics of Pure Malt Extract, in an exceedingly palatable form. Children and delicate females take it readily, and easily digest it. Its action is mild but reliable. The taste of the oil is quite indiscernible.

CONTAINS 50 PER CENT. OF CASTOR OIL.

DOSE—Children: Half to Two Teaspoonfuls. Adults: One to Two Tablespoonfuls.

In Bottles, 1s. and 2s. 6d. 8s. and 18s. per doz.

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Maintain their high reputation against all comers for general excellence of quality and finish.

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Schacht's Preparations.

SCHACHT'S LIQUOR BISMUTHI.
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SCHACHT'S LIQ. BISMUTHI SEDATIVUS.
Contains pure Bismuth and *Pepsina Liquida* in combination with sedatives. A formula most serviceable in the treatment of gastric pain. In 4 oz., ½ lb., and 1 lb. bottles.

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A standard preparation, of definite alkaloidal strength, containing the entire medicinal properties of the finest Cinchona Bark. It is, in fact, *Bark minus the woody fibre*, and its efficiency has been proved by careful medical enquiry. Dose: Ten to sixty drops.

SCHACHT'S PEPSINA LIQUIDA (REGISTERED TITLE).
Fluid pepsine of extraordinary activity—tasteless, odourless, attractive to patients, and reasonable in price. Every teaspoonful when tested by the official B.P. process is *guaranteed* to effect the solution of 1,000 grains of albumen. Peptic power is the only test of value. Most of the fœtid and repulsive dry Pepsines have proved worthless. In 4 oz. bottles, 2*s.* 6*d.* each; and larger sizes for dispensing at a cheaper rate

SCHACHT'S PEPSINA LIQUIDA C. BISMUTHO.
Each drachm contains in a concentrated form, besides the fluid pepsine a full dose of Schacht's Liquor Bismuthi. Dose: One drachm. In ½ lb. and 1 lb. bottles.

N.B.—Peps. Liq. c. Bismutho Co. contains, in addition, one gr. soluble Euonymin in each drachm.

SCHACHT'S PEPSINA LIQUIDA C. EUONYMIN.
Each drachm contains one grain of soluble Euonymin. Dose: One drachm. For dispensing ½ lb. and 1 lb. bottles.

SCHACHT'S LIQ. PODOPHYLLI C. BISMUTHO.
A perfect solution of Podophyllin, containing ¼ gr. in each drachm.

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A pleasant and active form of Cascara Sagrada. Dose: One to three teaspoonfuls diluted. In 4 oz., ½ lb. and 1 lb. bottles.

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An entirely new Essence, perfectly reliable, for the coagulation of Milk, and the production of Junkets and Curds and Whey. It is a preparation of the most wholesome nature, that *contains no salt*, and has no special taste, smell, or colour. In large bottles at 1*s.* of all Chemists. This Essence keeps well in any climate.

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GILES, SCHACHT & Co., Clifton, Bristol.

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Beg to inform their friends and the Trade generally that, having purchased the Business of

BARRON, SQUIRE & CO., BUSH LANE,

and also the various Formulæ of the Special Preparations of

JAMES BASS & SONS, HATTON GARDEN,

they are prepared to execute orders for the same, and pledge themselves to supply them in all their integrity.

Specimens of these Preparations have remained in the Museum of Kew Gardens during 28 years without deterioration.

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For destroying Weeds, Moss, &c., on Garden Walks, Carriage Drives, Roads, &c.

Special advantages which the sale of the "Acme" Weed Killer affords the Trade.

1. The "Acme" Weed Killer is used in the gardens and on the estates of the Gentry everywhere, and by Corporations and Burial Boards in Parks, Cemeteries, &c.
2. Our Retail Prices are such as will induce a ready sale, and we make no charge for 1 and 2 gallon tins.
3. We pay carriage on six 1-gall. tins, or on four 2-gall. tins, and on 10 galls. and upwards, in drums and casks, to any Station or Port in Great Britain.
4. Drums and casks are charged at cost price. Full price allowed when returned.

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RETAIL PRICES.—In 1 and 2 gallon tins, 2/- per gallon (tins included); in 5-gallon drums, 1/6 per gallon; 10, 15, and 20 gallons, 1/4 per gallon; in 40-gallon casks, 1/2½ per gallon.

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"CROWN" BRAND
Carefully prepared and guaranteed Genuine. 16*s.* 6*d.* per cwt. net, in Hull. *Write for Samples.*

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BICARBONATE OF SODA,

REFINED AND RECRYSTALLIZED.

PURE AND CHEAP.

ANALYSIS.

Bicarbonate of Soda	97·20
Mono Carbonate of Soda	1·90
Sulphate of Soda	trace
Chloride of Sodium	·035
Moisture	·82
Insoluble	nil

PURE ALKALI,

GUARANTEED 58 DEGREES.

EQUAL TO 98 PER CENT. OF CARBONATE OF SODA.

Most economical form of Soda for the use of Printers, Bleachers, Dyers; Glass, Paper, and Soap Makers.

SODA CRYSTALS

OF THE FINEST QUALITY.

BRUNNER, MOND & CO., LIM.

Manufacturers of Soda by the Ammonia Process (Solvay's & Mond's Patents),

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ORIGINAL GRANULAR EFFERVESCENT PREPARATIONS

"ALFRED BISHOP" was the Inventor and Original Manufacturer of all Granular Effervescent Preparations. All others are imitations. SILVER MEDAL, HIGHEST AWARD, PARIS, 1889.

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MAGNESIA CITRATE (2nd Quality). This is a first-rate article at a low price. It is made as carefully as our best, and will keep quite as well. Excellent for Chemists' own bottling. 1/3 per lb., less usual discount; per cwt. 1/- per lb. nett.

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"POSITIVE CHILBLAIN CURE"

Numbers of orders coming direct.

Every Chemist should keep it. In 7½d. and 1s. 1½d. boxes.

See few of Testimonials just received :—

"I have used your 'Chilblain Cure,' and am happy to say it has been thoroughly successful. I shall have great pleasure in recommending it to my friends."

"I have used your 'Chilblain Cure,' and it afforded me instant relief, and I am only too pleased to recommend it."

"Your 'Chilblain Cure' to hand. I tried it with a result which was really marvellous. My hands were covered with chilblains, but after using your 'Cure' the inflammation left them entirely. I have already recommended it to several people, and shall always bring it to the front whenever I can, for I consider it really is what you name it, a "POSITIVE CHILBLAIN CURE"

The originals of these can be seen on application.

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KREAT - HALVIVA

The New Substitute for Quinine.

REDUCES TEMPERATURE, SUPPRESSES INFLUENZA, SEA-SICKNESS, &c. CURES INDIGESTION.

One size only for Public use, for sale at 2s. 9d. a bottle.
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SPARKLING HALVIVA for sale at 5s. a dozen.

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The undersigned call the attention of Medical Men and Pharmacists to the superior nature of their

Pure Oil of Eucalyptus Globulus,

distilled by them from leaves of Blue Gum trees cultivated in California. It should be noted that the reputation of Eucalyptus Oil is solely based upon the virtues of the Globulus variety; but very little of this now comes into the market from Australia, because it can only be produced there at from 15s. to 20s. per lb.

The DOWNIE B. I. P. CO. have extensive forests of Blue Gum trees in California, grown from Australian E. GLOBULUS seeds. The leaves of these trees are used for manufacturing an aqueous extract, as a boiler-incrustation preventive, and the company have lately perfected the means for collecting the Essential Oil. This Oil is of great purity, is unmixed with kindred bodies, and contains the full percentage of Eucalyptol. Since it is obtained as a by-product, the manufacturers place it on the market at a price which in other circumstances would be impossible.

Please specify "DOWNIE'S" in ordering through any Wholesale House, as there are many adulterated and worthless varieties in the market.

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The proportions of the various ingredients are carefully and judiciously calculated, so as to form an efficient aperient and alterative, as well as an agreeable and effervescing draught. ALSO

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A Bland, Odourless, and perfectly pure Hydro-Carbon Jelly of our own manufacture. Cheapest and best Hydro-Carbon.

ALSO

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LIME-FRUIT JUICE AND CORDIALS.

Largest Sale of any similar Beverage in the World.

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Wholesale and Export Druggists,

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CHLOROFORM

(DUNCAN'S).

PREPARED FROM PURE AND METHYLATED SPIRIT.

Also CHLOROFORM (BLUE LABEL).

Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in stoppered bottles, securely luted, and in hermetically sealed flasks when required.

N.B.—We guarantee all the above **CHLOROFORMS** *to be* **PURE CHLOROFORM**, *answering all the tests of the British Pharmacopœia.*

FLEXIBLE GELATINE CAPSULES.

CASCARA SAGRADA CAPSULES.

Each Capsule equal to ¼, ½, or 1 teaspoonful of Fluid Extract of Cascara Sagrada. They can also be had in combination with ½ or 1 grain of Euonymin In Boxes at 1/6 and 2/6; 14/- and 24/- per dozen. (Also in Bulk.)

BLAUD'S PILL CAPSULES.

In 3 sizes, equivalent respectively to 1, 2, or 3 Blaud's Pills.

These Capsules differ from all others, and have advantages which no others possess. They are made from Pure Unoxidised Carbonate of Iron by a special process. They are so prepared that, while they retain indefinitely the full efficacy of fresh Blaud's Pills, they have no tendency to become hard and insoluble by keeping, as the pills often do. They are small in size. Owing to the special process adopted by D., F. & Co., the 3-pill Capsule is hardly larger than a single Blaud's Pill. They are soft and flexible, and much more easily swallowed than pills.

They can be had in combination with Arsenic, Nux Vomica, &c. In Boxes at 1/-, 1/9, and 2/6; 8/-, 15/-, and 22/- per dozen. (Also in Bulk.)

"The administration of nauseous as well as unstable drugs in the form of Flexible and Soluble Gelatine Capsules has found favour with many, and a well-known firm like Messrs. Duncan, Flockhart & Co. are sure to devote great care to the preparation of medicaments of this kind. An illustration of this is afforded in the case of the Bland's Pill Capsule, which of course should contain as far as is possible the Iron in the proto or ferrous condition. On examining a Capsule made by this firm, and said to contain the equivalent of three pills, we found that of the total amount of Iron present 92 per cent. was in the form of proto-carbonate."—*Lancet*, 23rd May, 1891.

"We have received from Messrs. Duncan, Flockhart & Co., Edinburgh, a number of samples of Capsules containing various pharmaceutical preparations. They are very soft and flexible, and can be easily swallowed. The Capsules containing 1, 2, and 3 Blaud's Pills respectively are not much larger than ordinary pills. A chemical examination of their contents shows that the Iron is in the ferrous condition, and therefore that these Capsules retain the full efficacy of fresh Blaud's Pills."—*British Medical Journal*, 11th April, 1891.

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Each Capsule equivalent to 20, 30, or 60 minims of Easton's Syrup.

In Boxes at 1/-, 1/9, and 2/6; 10/-, 17/-, and 24/- per dozen. (Also in Bulk.)

SYRUP. HYPOPHOS. COMP. (Duncan's.)

Some time since we had several samples of well-known SYRUP. HYPOPHOS. COMP. analysed by Mr. D. B. Dott, F.R.S.E., F.I.C., Ph.C., and in no one case did he find so large a proportion of the active constituents as is found in our preparation by a precisely similar analysis—which analysis is an absolute proof that the proportions of the different ingredients which we state are in our Syrup are actually present. We, therefore, submit that from the use of our Syrup the best results may be confidently anticipated.

In proof of our statements we subjoin the report of Analysis referred to.

NOTE.—Our Syrup will darken in colour by lengthened keeping; and so must every Syrup which contains a similar proportion of Ferrous Hypophosphite.

"*Analysis of SYRUP. HYPOPHOS. COMP. (grains per drachm).*"

	Duncan's	No. 1	No. 2	No. 3	No. 4
Hypophosphite of Quinine ..	·25	·14	·11	·69	·12
" " Iron	·77	·72	·10	·28	·15
" " Manganese	·27	·22	·00	·16	·08
" " Calcium....	1·04	·00	·83	·01	·15
" " Potassium..	1·00	·68	1·48	·24	·29
" " Sodium	1·53	1·45	1·54	·29	·29
The quantity of Strychnine present was not determined. Our Syrup contains $\frac{1}{100}$ grain in each fluid drachm.					

WHOLESALE FROM WM. EDWARDS & SON, 157 QUEEN VICTORIA STREET, LONDON, E.C.

PRECIPITATED CHALK

PUREST AND WHITEST QUALITY.

CHEAPEST SELLERS IN THE MARKET,

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CARBONATE, CALCINED, AND HYDRATE.

PURE FLUID MAGNESIA.

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WRITE AT ONCE FOR SHOW-CARDS and PAMPHLETS OF

THE "CLIMAX" WEED KILLER

Large Discounts given to the Trade.

Small Stocks only need be kept, as we Pay Carriage on 5-Gallon orders.

Prepared Solely by

THE BOUNDARY CHEMICAL CO., LIM., 211 GREAT HOWARD ST., LIVERPOOL.

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Guy's Tonic

and

Guy's Fruit Pills.

AN ever-increasing demand has now been established for these Preparations in all parts of the world. Our advertising account will be continually increased, a portion being devoted to foreign countries. The export trade in these Medicines is therefore sure to be greatly augmented.

Full information and prices will be readily supplied on application to the Sole Proprietors,

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THE SAFEST AND BEST PREPARATION OF OPIUM.

PRODUCES NEITHER HEADACHE, SICKNESS, NOR CONSTIPATION.

PREPARED EXCLUSIVELY FROM OPIUM.

Although many new hypnotics and analgesics have been recently introduced, NEPENTHE still holds its position as THE hypnotic and sedativ *par excellence.* "Nepenthe" is registered under the Trade Marks Act, and is our sole property. *No other preparation* should be substituted when Nepenthe is ordered in a prescription.

Sent out in bottles bearing a label in white letters upon a green ground. We prepare also *Double Strength Nepenthe*, and Glycerole of Nepenthe (eight times the single strength) for hypodermic injection.

PRICES AND TERMS ON APPLICATION.

FERRIS & CO., WHOLESALE AND EXPORT DRUGGISTS, **BRISTOL.**

SEA-SICKNESS—A THING OF THE PAST.

"NEPTULINA,"

(REGISTERED TRADE MARK, No. 158940.)

A New and Marvellous Remedy which absolutely PREVENTS and CURES

SEA-SICKNESS.

Retail Price, 2*s.* 9*d.* and 4*s.* 6*d.*

Price to the Trade, 27s. and 44s. Doz. Full Retail Price must in all cases be charged; no cutting allowed. Wholesale London Depot, Messrs. NEWBERY & SONS. Agent for the Proprietor, JOHN NOBLE, M.P.S., Chemist, South Shields.

Her Hawaiian Majesty's Consulate General, Toronto, 30th September, 1891.

DEAR SIR,—I used a bottle of your "NEPTULINA" on the voyage from Liverpool to New York by the "Etruria," arriving on the 26th inst. although we had a rough passage I entirely escaped Sea-Sickness. Yours truly,

J. ENOCH THOMPSON, J.P., Hawaiian Consul General.

[*This gentleman reported that in all previous voyages he suffered from Sea-Sickness.*]

JAMES WOOLLEY, SONS & CO.

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MANUFACTURING PHARMACEUTICAL CHEMISTS.

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ASSAYED DRUGS.
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Their Powders and Preparations.

SPIRITUS ÆTHERIS NITROSI, B.P.
Guaranteed of the official strength.

ÆTHER. NITROSUS & SOL. ÆTHER. NIT.
(1 to 7)

SOL. ÆTHYL NITRITIS.
(3 per cent. in Absolute Alcohol and Glycerine.)

SPIRIT. AMMON. AROMAT., B.P.
(Made from *Volcanic* Ammonia.)

ISO-BUTYL NITRIS.
Glass Capsules of Iso-Butyl Nitrite,
In Metal Boxes of 10 Capsules, encased in Silk. Retail, 2*s.* 6*d.*

NEW SEASON'S (1892) **"EXTRA PALE" COD-LIVER OIL.**
Unchanged at 32° F., and characterised by its light colour, sweetness, and freedom from fishy taste or odour.

TASTELESS COATED PILLS.
OINTMENTS LEVIGATED BY STEAM POWER.
IMPALPABLE POWDERS.
PURE AND COMMERCIAL CHEMICALS.
CHEMICAL APPARATUS.

DEALERS IN SURGICAL AND SCIENTIFIC INSTRUMENTS.

PRICES CURRENT AND CATALOGUES ON DEMAND.

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Size 7½ by 8 in.

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This unique Disinfectant and Powerful Deodoriser (being volatile) simply requires hanging up to exterminate the germs of Disease, and to render the air pure and free from all injurious contamination whatsoever. It is also invaluable for killing Moth, and may safely be placed among Furs and other costly Fabrics. A Boon in hot climates against Mosquitoes, &c. Flies of any kind will not go near it.

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Proprietary Medicines, Perfumery, Mineral Waters, Lozenges, Druggists' Sundries, and Miscellaneous Ar

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EXTRACTS & LIQUID EXTRACTS A SPECIALITY.

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Tubes, 2s. each; Half Tubes, 1s. each. Pomade in vials, 5s.

HUMAN VACCINE, from healthy children only, microscopically examined and source quoted. Tubes two-thirds full, 1s. 8d. each; Tubes one-third full and Lancet-charged points, 1s. each; Pin-points, 1s. 1d. each. Eighteen charged Small Points, 5s. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin-points uncharged, 1s. per dozen. Vaccine Ejectors, 1s. 3d. each including postage. Vaccinations by appointment. P.O.O.s (including postage, and crossed London and Westminster Bank) with orders, payable to EDWARD DARKE, *Secretary.*

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SEMPER-DULCIS or EVER-SWEET

For Milk, Butter, Cream, Sausages, &c., &c.

FINEST BUTTER COLOR

(BUTTERCUP BRAND).

ACIDS OF ALL KINDS.

GRANULATED EFFERVESCENT PREPARATIONS.

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DR. BOW'S LINIMENT.

Of late a spurious article has been offered for sale, put up in imitation of the genuine one, even to copying the Pamphlet, Wrapper, and Labels. To protect the public from, and facilitate proceedings against, such frauds, the Proprietor has registered the Trade Mark here shown, a reduced copy of which will be found on the outside label on every bottle put up after this date. As a further security, the name **"DR. BOW'S LINIMENT"** (also a trade mark) appears in the Government Stamp.

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SALTS OF MORPHIA

TO WHOM AT THE UNIVERSAL EXHIBITION IN PARIS, 1878,

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ANSWERING ALL THE RECOGNISED TESTS.

ALOIN.	**CODEINE.**	**GINGERINE.**
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SALICINE.	**JALAPINE.**	**SCAMMON. RESIN.**

EXTRACT. FILICIS LIQUIDUM,

AND OTHER ALKALOIDS AND FINE CHEMICALS.

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SPIRITUOUS PREPARATIONS IN BOND,

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SPT. ETHER. NIT.	TINCTURES.	LINIMENTS.
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DECOCTIONS, &c.

All of ENGLISH MANUFACTURE and guaranteed B.P. strength.

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The Master of the Rolls defends Holloway's Pills.

See "THE CHEMIST AND DRUGGIST," November 21, 1891.

Scene—Court of Appeal, Wednesday, November 18, 1891.

COUNSEL (MR. MACLAREN, M.P.): "SOME PEOPLE TAKE HOLLOWAY'S PILLS, FOR INSTANCE."
MASTER OF THE ROLLS (LORD ESHER): "BUT THEY ARE VERY GOOD PILLS!"

HOLLOWAY'S PILLS AND OINTMENT

Are Manufactured only at 78 NEW OXFORD STREET (late 533 OXFORD STREET), LONDON.
And Sold by all Chemists and Patent Medicine Vendors throughout the World.
Advice Gratis, daily, at the above address, between the hours of 11 and 4, or by letter.

"RESEMBLE PEARLS."—(*Press Opinion*).

WAND'S SOLUBLE PEARL-COATED PILLS

SPECIAL LINES.

Net for Cash with Order, in 10-gross tins. Carriage Paid.

OFFICIAL FORMULÆ.

		Per Gross
1	Pil. Aloes Barb.	-/6
2	„ Aloes et Asafœtidæ	-/6
3	„ Aloes et Ferri	-/5½
4	„ Aloes et Myrrh	1/1
6	„ Asafœtidæ Co.	-/6
8	„ Coloeynth. Co.	-/10
9	„ Colecynth. et Hyos.	1/-
11	„ Ferri Carb.	-/6
13	„ Hydrarg.	-/6
17	„ Rhei Co.	-/5½

APERIENT PILLS.

45	℞ Ext. Aloes Aquosum	gr. xx.	
	Pulv. Camhogiæ	„ iv...	
	„ Jalapæ	„ viij..	
	„ Coloynth.	„ vj..	
	„ Hyd. Subchlor.	„ iv...	
	„ Sapo. Hispan.	„ iv...	
	Gingerin	„ ij ..	
		Ft. Pil. xij.	
	Each pill contains Calomel ⅓ gr.		-/6
46, as 45, with 1 gr. Calomel			-/6
47, as 45, sine Calomel			-/6
533	Aloes Barb.	gr. iss...	
	Jalapæ	„ j. ..	
	Coloc.	„ j. ..	
	Camhogiæ	„ ¼ ..	
	Saponis	„ ss...	
	Ol. Carni	gtt. ¼ ..	-/5
40	Aloin		
	Jalapin	aa. gr. j.	
	Gingerin	gr. $\frac{1}{10}$ ..	1/8

ANTIBILIOUS.

129	Pil. Hydrarg.	gr. j. ..	
	Ext. Coloc. Co.	„ ij. ..	
	„ Hyoscy.	„ j. ..	-/11
130	Pil. Hydrarg.	„ j. ..	
	„ Rhei Co.	„ iv...	-/8
865	Hydrarg. Subchlor.	„ iss...	
	Pil. Coloc. Co.	„ iij...	1/2
1083	Podophyllin	„ ¼ ..	
	Ext. Coloc. Co.	„ iij...	
	„ Hyoscy.	„ j. ..	1/2

CASCARA SAGRADA EXT.

70	Ext. Cascara Sagrada	gr. ij. ..	-/6
71	„ „ „	„ iv...	1/-
72	„ „ „	„ ij. ..	
	„ Nuc. Vom. Alc.		
	„ Belladonnæ	aa. gr. ⅓.	
	„ Gentian.	gr. ss...	1/-
435	„ Cascara Sagrada.	„ ij...	
	„ Nuc Vom. Alc.		
	„ Hyoscyam.	aa. gr. ⅓.	
	„ Gentian.	gr. ss...	1/-
461	Pil. Cochiæ.		
	℞ Pulv. Aloes Cape	„ ij. ..	
	„ Camhog.	„ j. ..	
	„ Jalap.	„ ss...	
	„ Sapo.		
	„ Zingib.	aa. gr. ¼.	
	Ol. Caryoph.	♏ $\frac{1}{10}$ ..	-/6

Subject to Market Fluctuation.

MEDICAL AND DRUG JOURNALS

ASSIGN TO

WAND'S PILLS the Highest Praise for Elegance of Appearance, Absence of Injurious Varnish, Speedy Solubility, Purity of Ingredients.

High-Class Testimonials are constantly coming to hand from Medical Men and the Trade.

Extract from "The Lancet," Dec. 12, 1891.

SOLUBLE PEARL-COATED PILLS AND GLYCERINE JUJUBES.

(STEPHEN WAND, LEICESTER.)

These pills are aptly named, as the substance of their coating is so elegantly made and finished that in appearance they resemhle pearls. When placed in water, especially if slightly aoidulated or gently warmed, they hreak np nnder the dissolving influence of the liqnid, the medicament soon becoming exposed in a state ready for absorption. According to our tests dne attention has also heen paid to the condition and quality of the aotive ingredients oontained in these excellent and attraotive preparations. Mr. Wand evidently possesses the seoret of coating pills snccessfully, and the process hy which they are made exhihits considerahle taste and skill. Besides eight varieties of pearl-coated pills, we have received from this firm specimens of GLYOERINE JUJUBES, said to contain 50 per cent. pure glycerine. These furnished further testimony to the general excellenoe of Mr. Wand's pharmaceutical products.

Extract from "The British Medical Journal."

SOLUBLE PEARL-OOATED PILLS.

Pearl-coated Pilis are very elegant in appearance and are readily taken hy patients. The ohjection to their use is that sometimes the coating is so hard that the pills pass through the intestinal canal unchanged. Mr. Stephen Wand, of Leicester, has sent for examination specimens of some of his soluble pearl-coated pills. We find that when they are placed in water at a temperature of 100° F. and kept perfectly still, in the course of an hour the coating has heoome cracked and the water colonred, thns showing that the contents have hecome dissolved. If during the experiment the pills are shaken, the disintegration can be effected in a muoh shorter time. The addition of a little dilute hydrochloric acid greatly faciliitates the operation. From these results it may be conoluded that the Pearl-Coated Pills sent hy Mr. Stephen Wand wonld, under the conditions existing in the stomaoh, rapldiy heoome broken up and their contents dissolved.—*September* 26, 1891.

Extract from "Chemist and Druggist," August 8, 1891.

COATED PILLS.

We have received from Mr. Wand, of Leicester, samples of his Pearl-Coated Pills. They are very nicely made and finished, the coating heing even, hright, and hard, yet we find that in coid water only the ooating disintegrates in a very short time, and the mass underneath is also rapidly affected hy the fluid. We take it from our experiments that the pills are perfectly soluble in the alimentary canal, and as far as we are able to judge the masses are made with excellent materials. The "BLAUD'S" PILL, for instanoe, SHOWS NO SIGN OF OXIDATION. Mr. Wand has nearly 1,300 formulæ, and offers 10-gross lots of the more popular pills at very low prices.

Extract from "British and Colonial Druggist," January 29, 1892.

Mr. Wand sends us samples of his Pearl-Coated Pills, on which we can report favourahly. They all readily disintegrate, they are uniform in size, and the coating is evenly distributed and quite inert. We can especially speak well of his "BLAUD'S" PILLS, whioh oontain the FULL QUANTITY OF FERROUS SALT, ENTIRELY UNOXIDISED, and therefore unimpaired in activity. The Oplum, Little Aperient, and Compound Rhubarb Pills, too, are excellent examples of what a piil should be.

SPECIAL LINES.

Net for Cash with Order, in 10-gross tins. Carriage Paid.

COUGH PILLS.

			Per Gross
892	Pulv. Ipecac. Co.	gr. iss...	
	„ Gum. Ammon.		
	„ Scillæ	aa. gr. j.	
	„ Saponis	gr. ss.	
	Antim. Tart.		
	Morph. Acet.	aa. gr. $\frac{1}{12}$	-/9
893	Pulv. Ipecac.		
	„ Scilliæ	aa. gr. ¾.	
	„ Capsici		
	„ Opii	aa. gr. ½.	
	„ Gum. Ammon.		
	Ext. Conii	aa. gr. j.	-/8

DIGESTIVE PILL.

60	℞ Bismuth. Subnit.	gr. ij. ..	
	Sodii Bicarb.	„ j ..	
	Ext. Nucis Vom.	„ $\frac{1}{10}$ ..	
	Gingerin	„ ¼ ..	-/10

ERGOTIN.

98	Ergotin.		
	Ferri Sulph. Exsic.		
	Ext. Hellebor.		
	„ Aloes Soc.	aa. gr. j.	
	Ol. Sahinæ	gtt. ss...	1/2

GOUT.

472	Ext. Colchici	gr. ½ ..	
	Ammon. Carb.	„ ½ ..	
	Guaiaci Res.	„ iv ..	
	Pulv. Opii	„ ⅛ ..	-/9
476	Ext. Colchici Acet.		
	Pil. Hydrarg.		
	Ext. Aloes Socot.		
	Pil. Rhei Co.	aa. gr. j.	-/10

HYDRARG. C. CRETA.

116	Hydrarg. c. Cretâ	gr. iij...	-/9
117	„ „		
	Pulv. Ipecac. Co.	aa. gr. j.	-/9

PENNYROYAL PILLS.

1150	Ol. Pulegii	gtt. ⅓ ..	
	Pil. Aloes et Ferri	gr. iv. ..	-/8

PHOSPHORUS.

170	Phosphori Pur.	gr. $\frac{1}{50}$ ..	1/6
171	„ „	„ $\frac{1}{50}$ ..	1/6
173	„ „	„ $\frac{1}{50}$ ..	
	Quininæ Sulph.	„ j. ..	2/-
177	Phosphori Pur.	„ $\frac{1}{50}$ ..	
	Ferri Redacti	„ iij...	
	Quininæ Sulph.	„ ss...	
	Strychninæ	„ $\frac{1}{50}$ ..	2/-

PODOPHYLLIN.

187	Podophyllin	gr. ¼ ..	-/6
188	„	„ ss...	-/8

QUININE PILLS.

„ ½ ..	-/4½
„ j. ..	-/5½
„ ij. ..	-/9
„ iij...	1/1

TIC PILLS.

1155	Quineti		
	Ferri Sulph.	aa. gr. ss.	
	Ext. Belladonnæ	gr. ¼ ..	
	„ Ooloh. Acetat.	„ ss...	
	„ Hyoscy.		
	Camphoræ	aa. gr. j.	1/-

TONIC PILLS.

109	Pil. Ferri (Blaud)	gr. iv. & v. -/4½

An improved form of unequalled excellence.—Vide Press Reports on this page.

Subject to Market Fluctuation.

WAND (Pearl-Coated Pill Factory), LEICESTER.

SPECIAL QUOTATIONS FOR LARGE QUANTITIES.

1D. PILLS!! SUGAR-COATED!! 1D. PILLS!!

Medicine made pleasant for all.

The Cheapest and Best Family Medicine The most Saleable Article in the Market Composed of the purest Drugs. Will keep good in all Climates any length of time.

The following varieties are put up in Glass Tubes, on Cards of 3 doz., or in gross boxes, at one penny per tube :—

Antibilious	Hamilton
Asafœtida	Liver
Bland	Podophyllin
Castor Oil	Quinine
Colocynth	Rhubarb
Dandelion	Tonic
Female	Vegetable, &c.

Other varieties can be had if required Terms—8s. per Gross, cash; 6 Gross assorted, in handsome mahogany glass case for 48s. Sent free by parcel post on receipt of P. O. Order or Postage Stamps. Agents and Purchasers of large quantities get a liberal discount. *Send for Sample.*

Aromatic Cachous, Chlorate of Potash Pellets and other varieties put up as above at same price.

Agents Wanted.—Apply at the

Anderston Apothecaries' Hall, Washington St., GLASGOW

Telegraphic Address—"Liliputian Glasgow."

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12, 13, and 14 LEWIN'S MEAD, BRISTOL,

WHOLESALE DRUGGISTS,

DRUG AND SPICE GRINDERS.

Special prices quoted for Ground Spices, Drugs, Crushed Linseed, &c., on application.

Manufacturers of Extract of Annatto (Aqueous), Annatto in Cake, Butter-colouring, Prime Rennet, offered in bottle, or special prices bulk.

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For THIRTY YEARS has maintained its world-wide reputation as

THE ONLY SAFE RELIABLE PHOSPHORIC CURE for Brain Wreckage, Paralysis, Sleeplessness, Harassing Dreams, and all Functional and Diseased Conditions of the System dependent upon the Deficiency of the Vital Forces.

DR. LALOR'S PHOSPHODYNE

HAS THE LARGEST SALE OF ANY PHOSPHORIC MEDICINE IN THE WORLD.

The only Medicine of the kind or name awarded a Certificate of Merit at the Calcutta Exhibition, 1883-4.

TRADE MARK—"PHOSPHODYNE."

THOUSANDS of unimpeachable Testimonials from all parts of the World. No other Phosphoric Preparation has received such exalted praise and distinguished recognition.

Sold in Bottles at 4s. 6d. and 11s. by all Chemists throughout the World.

MANUFACTURED ONLY AT

DR. LALOR'S PHOSPHODYNE LABORATORY, HAMPSTEAD, LONDON, N.W.

CHEMISTS enclosing Trade Card will be supplied free with a neat Pamphlet for Counter, &c.

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ROYAL INFANTS' PRESERVATIVE.

Established by 90 years' experience as a safe and effective Medicine.

Sold universally by Chemists and Patent Medicine Dealers.

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TRADE MARK NO. 158933

Zirizmah

an Anti-inflammatory Liniment.

PROVISIONALLY PROTECTED.

Marvellously efficacious in Chronic Bronchitis (and Spasmodic Asthma), Sore Throat, Influenza, Cold on Chest, Abdominal Pains from Cold, Rheumatism, Gout, Lumbago, Sciatica, Cramp, &c. A preventive; never stains or weakens; no restriction.

4/6 and 2/9 net. Terms, cash with order—One dozen, 40/- and 24/- respectively, carriage paid.

Orders to private address of Proprietress—106 SHEPHERD'S BUSH ROAD, LONDON, W.

WOODWARD'S

"GRIPE WATER"

TRADE MARK.

Is approved by MEDICAL OPINION in both ENGLAND and AMERICA as a SAFE and HARMLESS MEDICINE for CHILDREN.

"THE FAMILY DOCTOR," writing for CASSELL'S MAGAZINE, says:—"Woodward's 'Gripe Water' is THE ONLY MEDICINE OF ITS KIND I would feel justified in recommending."

WOODWARD'S

"GRIPE WATER"

Is supplied to AUSTRALIA, THE CAPE, and all BRITISH COLONIES, AMERICA, and the CONTINENT.

FOR WHOLESALE AND SHIPPING TERMS APPLY TO

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BRAINS!

Every Chemist who values his reputation for wisdom should at once lay in a stock. To be without it is a practical confession of top-storey vacuity.

A NEW and REMARKABLE DISCOVERY.

BROMO-PHOSPH, OR BRAIN FOOD.

As a Tonic, PERFECT; as a Digestive Stimulant, WORTH ITS WEIGHT IN GOLD.

GREAT DIGESTIVE STRENGTH!
BY TAKING BROMO-PHOSPH, OR BRAIN FOOD.

GREAT NERVE STRENGTH!
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BY TAKING BROMO-PHOSPH, OR BRAIN FOOD.

A LONDON MERCHANT says:—"The best investment I ever made was one penny stamp sent to the Ruddolph Laboratory, in return for which I obtained particulars of 'Bromo-Phosph, or Brain Food,' and whether you believe it or not, I have been a brighter and more successful man since I knew the virtues of this remarkable remedy. My conviction is that if the business men of to-day could know the real value of it, you would find it in every office and warehouse an acknowledged necessity."

BROMO-PHOSPH, or Brain Food, the new and marvellous Tonic.
SAMPLE BOTTLE, POST FREE, 15 STAMPS.

The Greatest Remedy of Modern Times.

BROMO-PHOSPH, OR BRAIN FOOD

(LIQ. PHOSPH. BROMIDI CO., RUDDOLPH),

The SOVEREIGN REMEDY for

NERVOUS EXHAUSTION and every form of Mental and Physical Weakness.

Prescribed by the most eminent Physicians, and held in the highest esteem by Merchants, Clergymen, and Literary Men in every part of the Kingdom.

DOSE.—From a Teaspoonful to a Tablespoonful in water three times daily.
When not prescribed by a Physician consult the detailed directions for use accompanying each bottle.

MANUFACTURED BY THE

BROMO-PHOSPH CO.

AT THE RUDDOLPH LABORATORY,

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WHAT OUR AGENTS SAY.

GEO. JAS. GOSLING, Esq., Pharmacist, of Stowmarket, Suffolk, writes:—

GENTLEMEN,—Bromo-Phosph is winning its way by the personal recommendation of those who have been benefited by it. One gentleman, who is an ardent sportsman, in speaking of the good it has done him, said that he always took a dose of it before going out to shoot, as it made him a steady shot, and he had killed more game this season than in any previous year. A dose of Bromo-Phosph after a hard day's mental work or worry ensures a refreshing night's rest, and, UNLIKE MOST NERVE-QUIETERS, does not leave a sense of depression, but a feeling of invigoration. The more the public know of its value, the larger will be the sales.

I am, yours very truly,
THE BROMO-PHOSPH CO. GEO. JAS. GOSLING, L.P.S.I. by Exam.

JOHN DALE, Esq., A.P.S., Reddish, near Manchester, says:—

It gives me much gratification to be able to inform you that I have the highest possible opinion of Bromo-Phosph as a remedy for Nervous Debility and Exhaustion. I have sold large quantities of it, and my customers give me profuse eulogiums to its merits; some of them having received permanent benefit after lengthy periods of mental and physical prostration.

The get-up of Bromo-Phosph is perfect.
Our Show Cards are splendid productions.
Our Counter Bills are unique.
All the London Houses stock our Preparations.
To Firms who buy well, and pay sharp, we send greeting, and shall be glad to quote best terms.

RECOMMEND

a tried and weary business man to take Bromo-Phosph, and you have made a friend who will bless you as long as he lives and remember you when he dies.

Dr. J. COLLIS BROWNE'S

CHLORODYNE.

THE ORIGINAL AND ONLY GENUINE.

IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the Court would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that had application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 1865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the *Medical Times*, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

ORIGINAL AND

ONLY GENUINE

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:—

Apothecaries' Hall,	London
Allen, Hanbury & Co.,	"
Baiss Brothers,	"
Banks & Richards,	Birmingham
Barron, Harvey & Co.,	London
Bell, John, & Co.,	"
Bourne & Taylor,	"
Corbyn & Co.,	"
Cox & Gould,	"
Curling & Co.,	"
Curtis & Co.,	"
Davy, M'Murdo & Co.,	"
Dobbin, W., & Co., Limited	Belfast
Drew, Barron & Co.,	London
Drew, B., & Alexander,	"
Dunn & Company,	"
Edwards, W.,	"
Evans, Gadd & Co.,	Exeter
Evans, Lescher & Webb,	London
Ferris & Co.,	Bristol
Foulger, S., & Son,	London
Frazer & Green,	Glasgow
Gale & Co.,	London
Giles & Son,	Clifton
Goulding, Messrs.	Cork
Gratton & Co.,	Belfast
Grimwade, Ridley,	London
Grindley & Son,	Chester
Hearon, Squire & Francis,	London
Hodgkinson, Tonge & Stead,	"
Hopkins & Williams,	"
Hovenden, R., & Sons,	"
Hunt & Co.,	Exeter
Hunt, A., & Co.,	"
Johnson, J. H. & S.,	Liverpool
Langton, W., & Co.,	London
Lynch & Co.,	"
Mander, Weaver,	Wolverhampton
Marsden & Sons,	London
Maw & Son,	"
Meggeson & Co.,	"
Mackay, John, & Co.,	Edinburgh
Morson, T., & Son,	London
Newbery & Sons,	London
Oldham, G., & Co.,	Dublin
Parsons & Richardson,	Leicester
Peake, Allen & Co.,	Dublin
Raimes & Co.,	York
Raimes & Co.,	Edinburgh
Sang & Barker,	"
Sanger, J., & Sons,	London
Sim, James, & Co.,	Aberdeen
Smeeton, W.,	Leeds
Southall & Co.,	Birmingham
Sutton, W., & Co.,	London
Tomlinson, Hayward & Co.,	Lincoln
Treacher, Hodgkinson & Co.,	London
Westrup, J. B.,	Kensington
Westwood & Hopkins,	London
Woolley, James,	Manchester
Wyleys & Brown,	Coventry
Yates & Co.,	London

After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy *alone* creates the great demand.

Sold in Bottles—1s. 1½d., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession.

SOLE MANUFACTURER,

J. T. DAVENPORT, Pharmaceutist,

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Patent Medicine Bottles.
Aerated Water Bottles.
Syrup, Cordial, & Liqueur Bottles
Screw Stoppered Bottles.
Screw Metal Top Pomades.
Cut Stoppered Bottles.
Shop Rounds. Carboys.

DISPENSING BOTTLES

AT WORKS' PRICES.

83 Upper Thames St., LONDON.

WILLIAM TOOGOOD'S

WAREHOUSE AND SHOW ROOM,

BURLINGTON BUILDINGS,

HEDDON STREET, REGENT STREET, LONDON, W.

INFLUENZA SPECIAL.

Write for Samples at once.

TOOGOOD'S POCKET INHALER,

For Charging with Eucalyptus, Pinol, Carbolic Acid, &c. 5/- dozen.

TOOGOOD'S VAPORISATEUR,

For Diffusing the Vapour of Eucalyptus, Pinol, Carbolic Acid, &c. 3/6 dozen.

Dr. BELL'S EUCALYPTUS ANTI-CATARRH SMELLING BOTTLE,

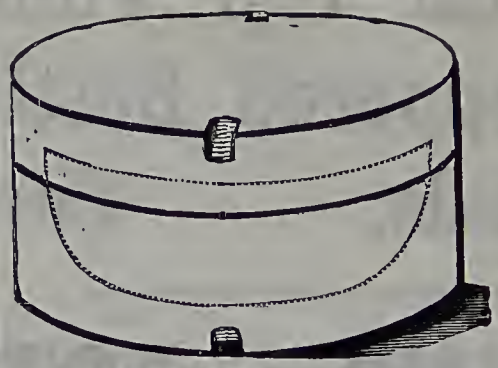
9/- dozen.

TOOGOOD'S

IMPROVED PATENT

EARTHENWARE COVERED POTS

Are claimed to be the most perfect and convenient yet offered to the Trade.



Owing to the increasing demand for our Patent Pots, we have introduced a Special THIN Series for Dispensing.

These Pots are beautifully glazed and finished, and, being very light, are specially adapted for sending by post.

ORDINARY THICKNESS—

1 dr.	2 dr.	½	¾	1	1½	2	3	4	6	8 ounces.
1/6	1/6	1/6	1/8	1/10	2/	2/3	2/10	3/6	4/6	5/6 per doz.

THIN FOR DISPENSING—

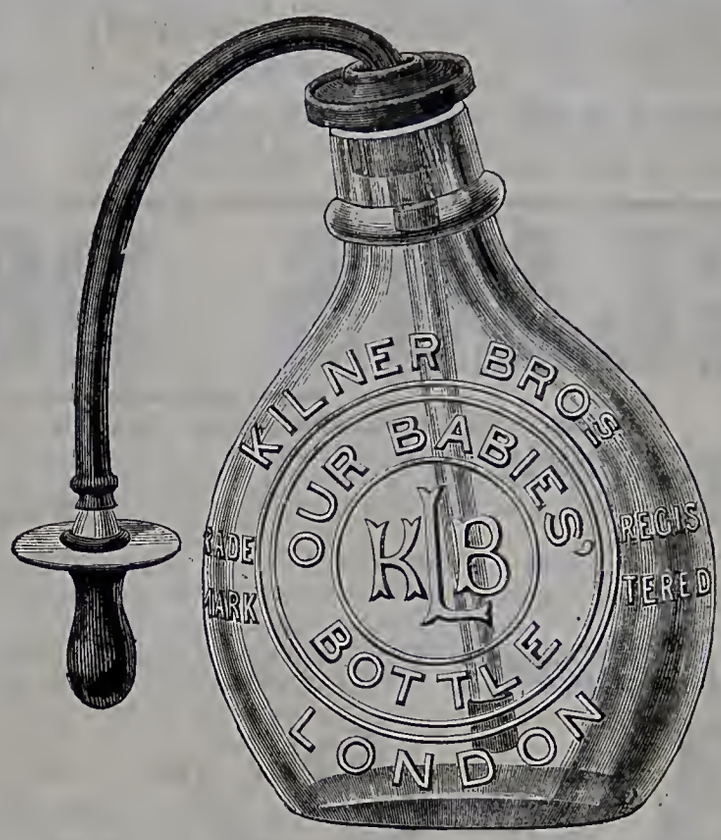
½	¾	1	1½	2	3	4	6	8 ounces.
1/7	1/9	2/	2/2	2/5	3/	4/	5/	6/ per doz.

TOOGOOD'S PATENT BRONCHITIS AIR KETTLE,

51/- per dozen.

SOLE AGENT FOR DR. LEE'S STEAM DRAFT INHALERS.

GLASS BOTTLES



ALL SHAPES, SIZES, AND COLOURS

DISPENSING BOTTLES.

Green Flint—Flats (ordinary and round edges), Ovals, Direct Squares, Rounds and Octagons.

	3	4	6	8	12 oz.	
Ordinary ...	8/-	8/-	9/-	9/-	13/3	per gross.
Best	10/-	10/-	11/6	11/6	16/9	"

White Vials, plain and graduated.

	½	1	1½	2	3	4 oz.	
Ordinary ...	3/6	3/9	4/6	5/3	6/9	8/-	per gross.
Best	4/6	4/9	6/-	6/9	8/9	10/-	"

FEEDING BOTTLES.

No.	6½-inch Rubber Tube.	Small lots.	2-grs. lots.	
1.	Green Bottles, Boxwood Top Corks, White Fittings	26/6	25/6	per gross.
3.	Green Bottles, Boxwood Top Corks, Black Fittings	30/-	29/-	per gross.
	White glass 2/6 per gross extra. China tops 1/6 per gross extra.			
64.	Green Bottles, Glass Screw Stoppers, White Fittings	32/-	31/-	per gross.
66.	Green Bottles, Glass Screw Stoppers, Black Fittings	35/6	34/6	per gross.
	White Glass 3/- per gross extra.			

These prices include 1 doz. partitioned Wood Boxes. If Bottles are loose 1/6 per gross less. Supplied each Bottle in Cardboard Box at 5/- per gross extra.

Revised Price List (Illustrated), containing full particulars of above and many other kinds, sent on application to

KILNER BROTHERS,

No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON.

GLASS BOTTLES

GOOD AND CHEAP.

From Stock in London or direct from the Works.

THE NEW SHAPE FLATS, WITH ROUNDED EDGES, OR THE ORDINARY SHAPE.

3 & 4 oz. } Plain or { 7s. 9d. per Gross.
6 & 8 oz. } Graduated { 8s. 9d. ,,

WHITE PHIALS at very low prices. Panel Bottles and all other kinds.
MINERAL WATER BOTTLES. Plain and Stoppered, at lowest market prices.
THE "NATIONAL FEEDERS" ready fitted, 2/6 per doz. (First-class Bottles).
THE "RELIANCE" MEDICINE DROPPER (fits any bottle), 2/- per doz.
THE "ANTI-MEDICINE TASTER" for taking disagreeable Medicine, 4/- per doz., each in a separate box.

COUNTRY ORDERS RECEIVE PROMPT ATTENTION.

E. ISAACS & CO., Glass Bottle Manufacturers,
25 Francis St., Tottenham Court Rd., LONDON.
Established 50 Years. Bankers—London and Westminster Bank.

BUY THE BEST

OIL PUMP

AND SAVE

OIL, TIME, MONEY.

THOUSANDS IN USE.

Write for full particulars and prices of The "Farringdon" Patent Oil Pumps to

PONTIFEX & WOOD, LIM.
Shoe Lane, LONDON, E.C.

GLASS BOTTLES.

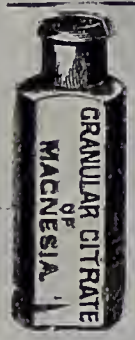
TO WHOLESALE AND EXPORT BUYERS.

DISPENSING BOTTLES of best quality, in White Flint or all the best and newest tints. **VIALS.**—White Flint or Coloured, in all shapes and sizes. **FEEDING BOTTLES.**—Plain mouths or Sorow Stoppers, in White or Green Flint. **LIME CREAMS AND KALIS** of all sizes. **ESSENCE BOTTLES** of every description, Plain or Stoppered. **MALT EXTRACT BOTTLES,** in Actinic Green, Amber, Dark Blue, or White Flint.

TO FOREIGN AND COLONIAL BUYERS.

Having recently erected spacious Warehouses, we are enabled to give special attention to packing Goods for Export. Only experienced Packers employed.

E. A. HEARN & CO., WHOLESALE & EXPORT GLASS BOTTLE MANUFACTURERS, ECLIPSE GLASS WORKS, CHATSWORTH ROAD, CLAPTON, **LONDON, E.**



GLASS BOTTLES OF THE BEST QUALITY.

DISPENSING, PICKLE, SAUCE, OIL, MINERAL WATERS, &c., &c.

SAMPLES AND PRICES ON APPLICATION.

E. YOULDON,
EAST LONDON GLASS BOTTLE WAREHOUSE,
36 to 40 Great Garden Street, Whitechapel,
LONDON, E.

ALWAYS IN STOCK

HOP BITTERS. LIQ. MALT. MALT EXTRACT.

Telegraphic Address—"Fish London." Telephone—No. 1365.

BOTTLES.

Further Illustrations, showing our principal lines, will appear fortnightly in The Chemist and Druggist.
Illustrated Price List in course of production.

A few Bottles which we stock in our

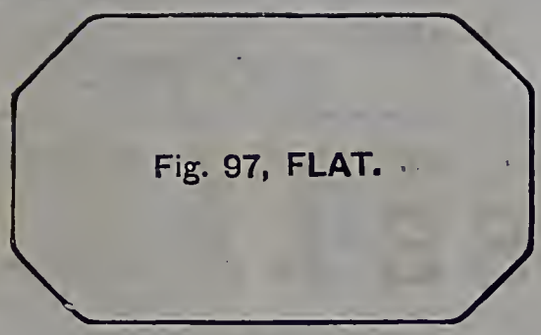
MAGNIFICENT AMBER TINT.

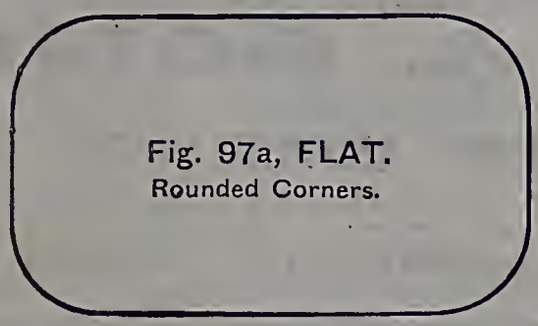
To be had through all Wholesale Houses.

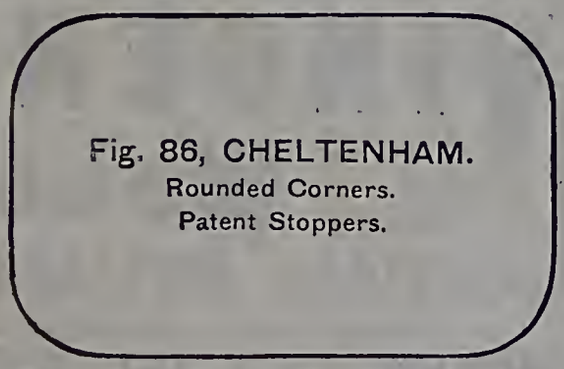
JOHNSEN & JÖRGENSEN
5 Savage Gardens, Tower Hill, E.C.
Warehouse, West India Dock,

S. MAW, SON & THOMPSON'S
GREEN FLINT
DISPENSING BOTTLES, &c.

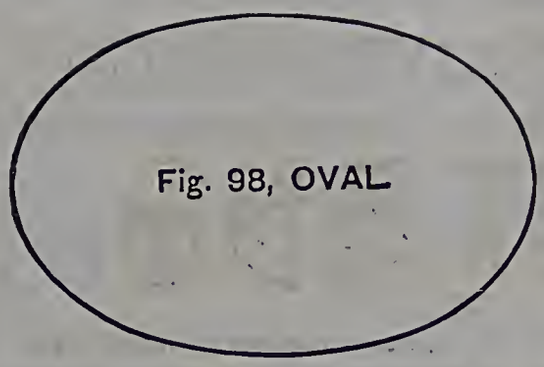
Special Quotations for Large Quantities.

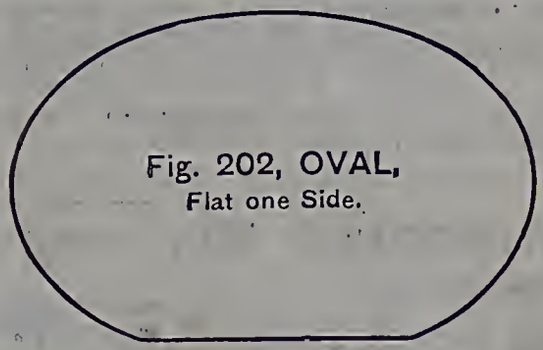


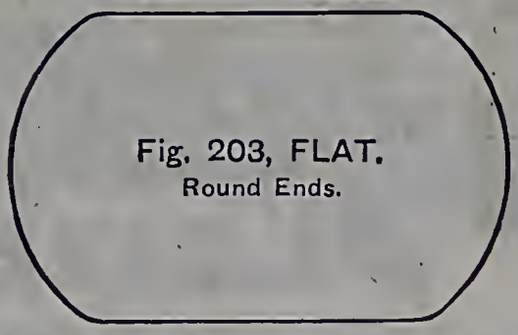




For Prices in Crates, see Quarterly Price-Current, page 44.







Special Quotations for Large Quantities.

For White Flint and all other Bottles, see Quarterly Price-Current, pages 44 to 48.

	2	3	4	6	8	10	12	16	20	Ounce.
Fig. 97	10/–	11/6	11/6	12/9	12/9	20/6	20/6	23/6	30/–	Best, per gross.
"	7/9	8/6	8 6	10/–	10/–	13/3	14/9	20/–	25/6	2nd, "
Fig. 97a	10/–	11/6	11 6	12/9	12/9	20/6	20/6	23/6	30/–	Best, "
"	8/–	9/–	9/–	10/6	10/6	14/3	15/9	21/6	26/6	2nd, "
Fig. 98	10/–	11/6	11/6	12/9	12/9	20/6	20/6	23/6	30/–	Best, "
"	7/9	8/6	8/6	10/–	10/–	13/3	14/9	20/–	25/6	2nd, "
Fig. 202	...	...	11/6	12/9	12/9	...	...	...	...	Best, "
Fig. 203	...	11/6	11/6	12/9	12/9	20/6	20/6	23/6	...	Best, "
Fig. 86	...	...	...	20/–	20/–	...	...	...	...	Best, "

USUAL DISCOUNT.

S. MAW, SON & THOMPSON, LONDON.

Telegrams—
"LINT LIVERPOOL."

THE
LIVERPOOL PATENT LINT CO.,
MARK ST. MILLS,
NETHERFIELD ROAD NORTH,
LIVERPOOL.

LINT.

MANUFACTURERS OF
FLAX, & COTTON,
LINTS,
ABSORBENT, AND CARDED
COTTON WOOLS,
ABSORBENT, OPEN WHITE, and GREY
BANDAGES,
SURGEON'S, AND CARBOLIZED
TOW.

ESTABLISHED 1830.

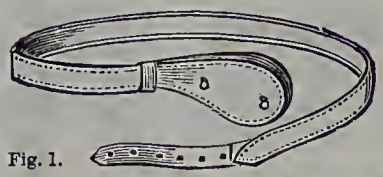


Fig. 1.

TRUSSES.

Fig. 2.

The Best and Cheapest Trusses of all kinds in the Wholesale and Export Market are manufactured by

LINDSEY & SONS.

ELASTIC STOCKINGS, SUSPENDERS, AND SURGICAL BANDAGES OF ALL KINDS.

WHOLESALE AND EXPORT. THE LARGEST SHIPPERS IN THE TRADE.

ILLUSTRATED PRICE LIST POST FREE TO ANY ADDRESS.

32 LUDGATE HILL, and 40 GRACECHURCH STREET, E.C.

FRANCIS' CAPSICUM LEAVES

Registered.—More effectual than Mustard Leaves. May be obtained through any Wholesale House. 6*d*. Tins, price 2*s*. 8*d*. per dozen.

CAPSICUM is highly recommended in *The Lancet* by Sir J—— S——, M.D., and Dr. H—— J—— B—— for the treatment of Rheumatism, Neuralgia, Bronchitis, Bronchial Catarrh, Sub-acute Gout, &c.

HOLLOWAY'S PILLS & OINTMENT

Have the Largest Sale of any Medicine in the World.

MANUFACTURED ONLY AT
Professor HOLLOWAY'S Establishment,
78 New Oxford St. (late 533 Oxford St.), London,

And sold at 1*s*. 1½*d*., 2*s*. 9*d*., 4*s*. 6*d*., 11*s*., 22*s*., and 33*s*. each Box or Pot. Chemists and Druggists selling "Holloway's Pills and Ointment" can on application to the above address, or to the Wholesale House with whom they deal, be supplied free of charge with Handbills and Posters with their name and address printed at foot.

Wholesale Terms see List of "Proprietary Articles" in most Price Currents.

HAMBRO SPECKLED

TRADE MARK REGISTERED.

LEECHES!

Warranted Healthy.
Wholesale and for Exportation.
Direct from Marshes.

FITCH & NOTTINGHAM,
Leech Breeders,
4 CANONBURY SQUARE, LONDON, N.

All Orders by Post receive immediate attention.

VINCENT WOOD'S

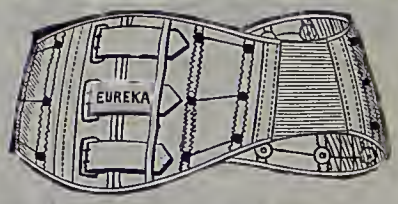
WORLD-KNOWN

SURGICAL APPLIANCES.

The "EUREKA" Galvano-Electric Continuous

BATTERY BELTS AND CORSETS.

BEWARE OF FRAUDS.



BELTS LARGELY ADVERTISED.

Prices.—Ladies' or Gentlemen's 1 power, 8 batteries .. .. 8/6 each.
" " 2 " 16 " .. .. 12/6 "
" " 3 " 24 " .. .. 16/6 "
Narrow Belts, Featherweight Electric .. .. 30/- per doz.
Galvano-Electric Corsets, 4/6 to 25/6 each, according to power.
Medical Batteries, Coils, Bells, &c.

ALSO PATENTEE AND MANUFACTURER OF

MAGNETIC APPLIANCES, TRUSSES, EAR CAPS, ELASTIC HOSIERY, ABDOMINAL BELTS, EXPANDING BRACES, SUSPENSORY BANDAGES, &c.

Statuettes, Electros, Counter Bills, Show Cards, &c., supplied Free to those exclusively stocking my goods. Obtainable through your Wholesale House, or apply at

3 St. Andrew Street, Holborn Circus, LONDON, E.C.
See Special Issue, January 30, 1892. (*Adjoining Church.*)
ESTABLISHED 1830. Telegrams—"ACME LONDON."

R. H. BARRETT,

Flint Glass Bottle Works,

99 THE OVAL, CAMBRIDGE HEATH, LONDON, E.

THE HEART SCENT BOTTLE (Reg.), for Salts or Perfume.

Is most admirably adapted for pocket use, combining great beauty of design with the maximum of convenience.

Price, Plain or Fluted (in 5 GROSS lots) :—12/6 per gross. Assorted WHITE and COLOURED.

N.B.—The Caps for these will be fitted, if desired, with indestructible washers, to resist the action of ammonia, which destroys cork in a short time.

METAL SCREW-CAPPED LIMES, in White Flint, Actinic Green, or Amber. The Best Bottle for Glycerine or Pills. Prices : 1 oz. 13/6, 2 oz. 15/-, 3 oz. 18/-, &c. per gross.

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered.

Orders may be sent to the PRINCIPAL WHOLESALE HOUSES.

TELEGRAPHIC ADDRESS—"FOREFRONT LONDON." [3]

R. H. BARRETT,

Flint Glass Bottle Works,

99 THE OVAL, CAMBRIDGE HEATH, LONDON, E.

For Beauty, Cheapness, and Efficiency R. H. BARRETT'S

WATCH SMELLING-SALT BOTTLES

EXCEL ALL OTHERS IN THE MARKET.

The Caps are all fitted with INDESTRUCTIBLE WASHERS, to resist the action of Ammonia and retain the strength of the Salts.

Price, assorted white and coloured, **10/6** per gross (in 5-gross lots).

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered

Telegraphic Address—"FOREFRONT LONDON." [1]

R. H. BARRETT'S

PATENT CAPPED BOTTLE

THE ONLY REALLY PERFECT BOTTLE

FOR VASELINE, POMADE, DRY POWDERS, &c.

PRICES (in 5-Gross lots) :—

Fitted with STRONG METAL CAPS, CORK-LINED : in various colours, very attractive in appearance :—1 oz. 12/ ; 1½ oz. 13/ ; 2 oz. 13/6 ; 3 oz. 16/6 ; 4 oz. 18/ per gross, &c.

Fitted with best BOXWOOD CAPS :—1 oz. 15/6 ; 1½ oz. 16/6 ; 2 oz. 17/6 ; 3 oz. 21/6 ; 4 oz. 24/6 per gross.

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered. Orders may be sent to the PRINCIPAL WHOLESALE HOUSES.

R. H. BARRETT,

FLINT GLASS BOTTLE WORKS,

99 THE OVAL, CAMBRIDGE HEATH, LONDON, E.

Telegraphic Address—"FOREFRONT LONDON."

ELASTIC SURGICAL STOCKINGS, APPLIANCES, &c.

Patent Pile, Protected, 14,618. The Pile lying over the India-rubber Cords, protecting them and forming a smooth soft surface to the limb.

LATEST NOVELTY.

NEW SUSPENSORY BANDAGE, THE "OCTOPUS."

Packed any way in Envelopes, Boxes &c.

No one will wear the other shape after trying one of this kind.

The Band of this SUSPENDER being cut a peculiar shape, so as to fit parallel with the External Oblique Muscles, and Buckling on each side of the Purse, clings to the Body as firmly as an "OCTOPUS." It can also be adapted by the buckles to fit a wide range of sizes.

Registered, 185,228.

Fitted with Galvanic Discs, it is a most powerful INVIGORATOR.

It is specially adapted for Riding, Hunting, Lawn Tennis and Football Players, Cyclists, Pedestrians, and all kinds of Athletic Sports.

Handbook of my Manufactures will be forwarded to any Surgical Instrument Maker or Chemist free.

MAGNETIC BELTS AND APPLIANCES.

Elastic Surgical Stockings, Knee Caps, &c.
Patent Spiral Seamless Elastic Stockings, &c.
Patent Pile Surgical Elastic Stockings.
Elastic Supports for Lawn Tennis, Cricket, Lacrosse, and other Athletic Sports.

Bath and Rubbing Gloves.
Bathing Caps and Belts.
Trusses of every description.
Poro-plastic Jackets.
Chest Expanding Braces.

Bandages—Indiarubber, Elastic, Lint, Cotton Sayres', &c.
Horse Ear Caps and Veterinary Appliances.
Suspensory Bandages.
Ladies' and Gentlemen's Belts.

Hot Water Bottles and Covers, Respirators, Inhalers, Bronchit's Kettles, Throat Sprays, Waterproof Coats, Cloaks and Driving Aprons, Footballs, Shin Guards, and Athletic Appliances, Druggists' Sundries, Invalid and Nursery Appliances, &c.

MANUFACTURER AND PATENTEE:—

J. H. HAYWOOD, *Surgical, Electrical, Athletic, and Veterinary Appliance Manufacturer,* **CASTLE GATE, NOTTINGHAM**

London Agent—HENRY C. QUELCH, St. Paul's Chambers, 1 Ludgate Square, E.C.

THE INHALANT

"SPIRONE"

TRADE MARK.

FOR THE TREATMENT AND CURE OF ALL

DISEASES OF THE LUNGS, WINDPIPE, NOSE & THROAT.

CLAIMS TO BE A

Specific for all Congestive and Inflammatory Conditions of the Respiratory Apparatus,

And will be found efficacious in

INFLUENZA, COUGHS AND COLDS, ASTHMA, BRONCHITIS,

Inflammation and Congestion of the Lungs, Pneumonia, Pleurisy, Whooping Cough, Croup, Diphtheria, Pharyngitis, Laryngitis, Catarrh, Sore Throat, Quinsy, Enlarged Tonsils, Hoarseness, Loss of Voice, Colds in the Head, Hay Fever, and all other Complaints of the Respiratory Organs.

None Genuine except such as bear the above Trade Mark "SPIRONE" and the Signature of the Inventor upon the Bottles, on the Label over the Cork, and on the Wrapper.

Retail Price, 4s. 6d. and 11s. per Bottle Set of Apparatus for Administration, 15s.

PAMPHLETS AND SHOWCARDS FREE ON APPLICATION.

THE SPIRONE COMPANY, LIM., DEPOT— 285 REGENT STREET, **LONDON, W.**

PROTECTED BY LETTERS PATENT.

THE MOST ABSORBENT DRESSING EVER INTRODUCED.

This Dressing is unlike any other in the Market, being prepared from a pure Vegetable Fibre, and besides being a very rapid absorbent it will take up

FIFTEEN TIMES ITS WEIGHT OF LIQUID.

SEDOX

Is supplied impregnated with any Antiseptic Solution required, and guaranteed that every particle is equally impregnated.

SEDOX

Is admitted by some of the most eminent Medical Men to be the Cleanest, most Absorbent, and most Efficacious Dressing known.

SEDOX

Can be obtained in almost every form in which Absorbents and Antiseptics are used.

SEDOX SANITARY SHEETS,

For Accouchement, Bed Sores, &c., are the best and most comfortable. Sold in three Sizes, No. 1, 24 in. by 18 in.; No. 2, 28 in. by 20 in.; No, 3, 34 in. by 34 in.

SEDOX DIAPERS,

Exquisitely Soft and Cool, are worn with perfect comfort without any of the inconveniences experienced with those generally in use.

SEDOX FOR DOCTORS' DAILY USE,

Put up into Rolls, 12 in. and 6 in. wide, from which any quantity required is easily detached without opening out the packet, or in small tin boxes.

THE SEDOX ANTISEPTIC RESPIRATOR

Is the Cheapest and most Effective ever made.

Any House Surgeon or Medical Man who has not yet tried SEDOX *should send for a Sample, which will be sent Gratis, Post Free.*

THE

SEDOX MANUFACTURING CO.

12 OAT LANE,

London, E.C.

PROTECTED BY LETTERS PATENT.

SOLPORT BROTHERS,

66 Shaftesbury Street,

NEW NORTH ROAD, LONDON, N.

Manufacturers (Wholesale and Export) of

CHEST PROTECTORS,

BATH AND FLESH GLOVES, STRAPS, &c.

CORN AND BUNION PLASTERS,

&c., &c.

Price Lists and full particulars on application.

"FURFELT" CHEST PROTECTORS.

ESCHMANN BROS. & WALSH,

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical Instrument Makers and Wholesale Houses.

To be had of all Surgical Instrument Makers and Wholesale Houses.

ST DALMAS' LEICESTER

Improved Adhesive Plaster

ON FINE FLESH COLORED CAMBRIC

USED BY SURGEONS ALL OVER THE WORLD.

"THE LEICESTER"

SPREAD & MARGINAL PLASTERS,

POROUS PLASTERS, MUSTARD PLASTER, CORN PLASTERS, COURT PLASTER, ETC.

BEST QUALITY.

FRANCIS'

BRONCHIAL PROTECTOR.

REGISTERED TRADE MARK.

Best Preventive and Cure of Bronchitis, Asthma Winter Cough, Tight Breathing, and all Throat Complaints. 13½*d.* and 2*s.* 9*d.*

MANUFACTURED BY

A. de ST. DALMAS & CO., LEICESTER.

THE FOREIGN BOTTLE MANUFACTURING COMPANY,

144 and 147 NARROW STREET, LIMEHOUSE, LONDON, E.,

SUPPLY ALL KINDS OF

MEDICAL, PERFUMERY, OIL, &c., BOTTLES

OF BEST QUALITY AT LOW PRICES.

PILL MACHINES

Those desirous of securing the best appliances for Pill-making in large or small quantities should apply, stating requirements, to

G. W. NIBLETT, ENGINEER, 26 RAINBOW ST., SOUTHAMPTON ST., CAMBERWELL, S.E.

1ST·CLASS·PRIZE· EXCELLENCE·IN·DESIGN

BOWLING & GOVIER

MANUFACTURER OF A SUPERIOR KIND OF FITTINGS FOR SHOPS SHOW ROOMS AND OFFICES

PLANS & ESTIMATES FOR ALTERATIONS NEW SHOP FRONTS AND FITTINGS

SHOP FITTINGS & SHOW CASES

ARCHITECTURAL AND ARTISTIC WOOD WORK

GUN ST BRUSHFIELD ST BISHOPSGATE N.E.

SHOW ROOMS & FACTORY

A LARGE ASSORTMENT OF SHOW CASES &c ALWAYS IN STOCK

HONORABLE MENTION SUPERIOR FINISH

BYGRAVE,

SHOP FITTER,

111 Shepherdess Walk,

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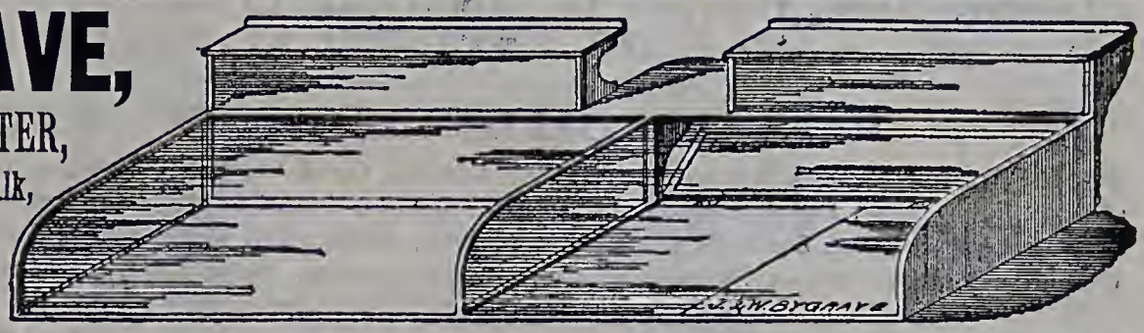

Bent-top plate-glass Counter Showcase, in French polished mahogany, or ebonized, with two upright mirror plate-glass fronted shelves, and table in centre for serving over, and mahogany falls at back lined with mirror plate glass, inside fitted with crimson velvet trays—if 5 ft. long, 18 in. wide, 8 in high (total height 13 in.). **£5 10s.**: 5 per cent. off for cash.

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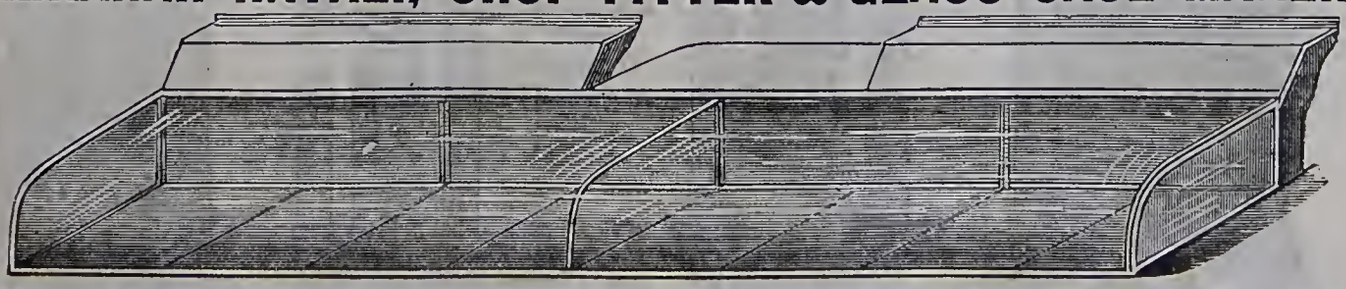

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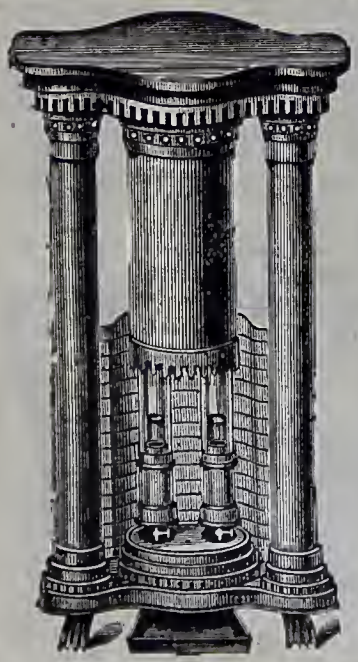

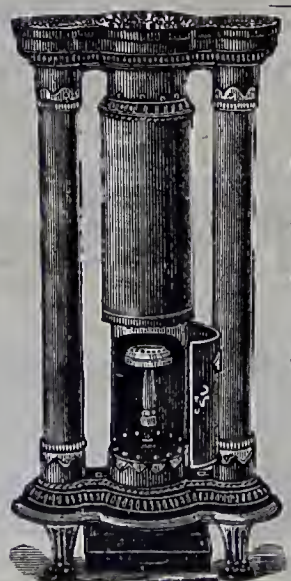

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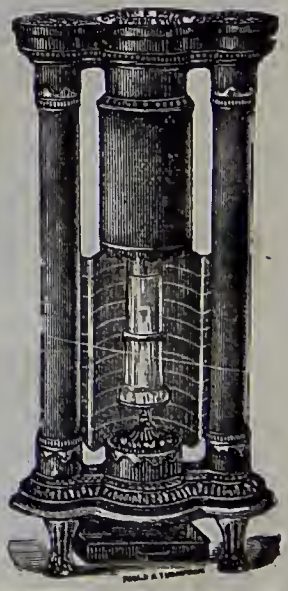

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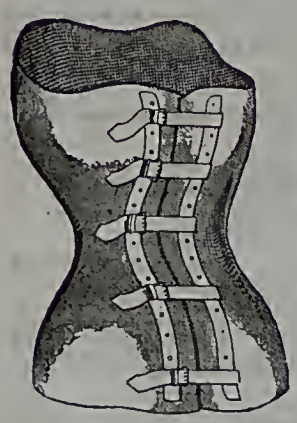

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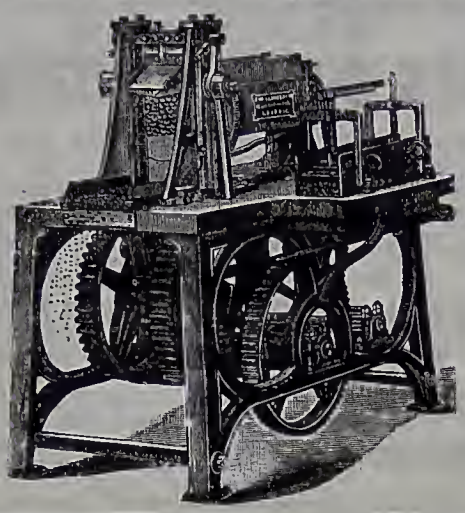

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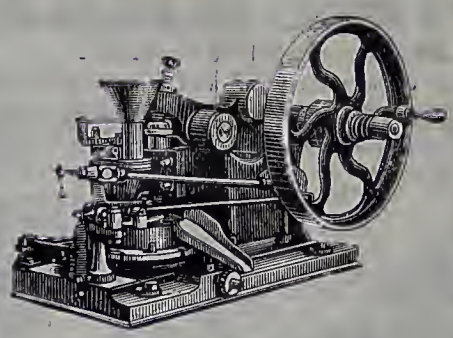


Sole Licensees for Manufacture and Sale of McFerran's Improved Automatic Machinery for Making

COMPRESSED TABLETS

Of various shapes and sizes, from ¼ gr. upwards. Nos. 4 and 5 Machines have been specially designed for

RETAIL DRUGGISTS.

MOULDS FOR CAPSULE MAKING.

Write for Particulars and Prices. Experts sent to fix and start Machines.

Special Machines Manufactured to Contract for Inventors & Merchants.

JOHN HOLROYD & CO., LTD.,

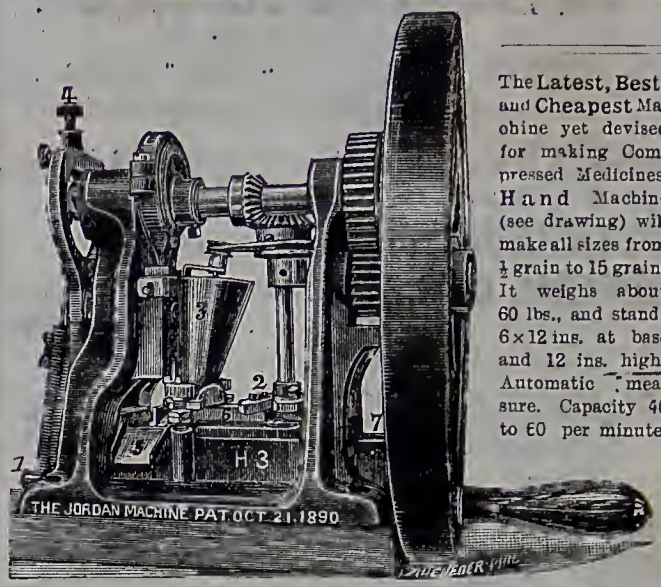
Tomlinson Street Works, [1]

HULME, MANCHESTER.

160

THE "JORDAN"

TABLET MACHINE



The Latest, Best, and Cheapest Machine yet devised for making Compressed Medicines. Hand Machine (see drawing) will make all sizes from ½ grain to 15 grains It weighs about 60 lbs., and stands 6×12 ins. at base and 12 ins. high. Automatic measure. Capacity 40 to 60 per minute.

Also POWER MACHINE

On similar principle, but heavier and stronger. Capacity up to ½ inch diameter, 100 to 150 per minute; ½ to 1 inch, 60 to 75 per minute.

WRITE FOR PROSPECTUS TO (SOLE AGENT)

F. FOSTER,

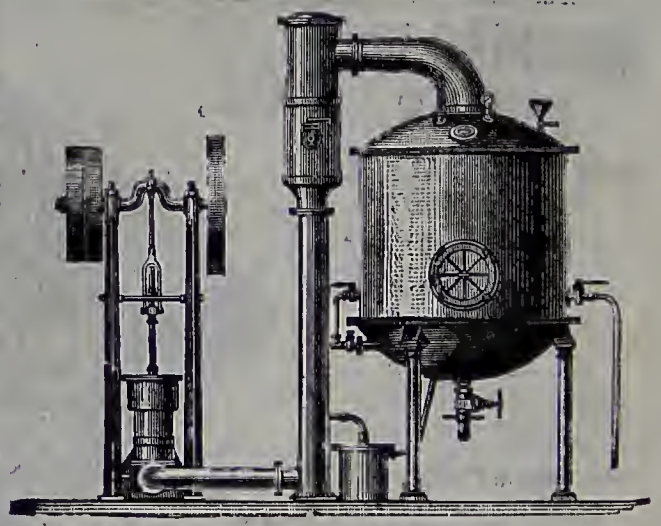
29E St. Nicholas St., SCARBOROUGH.

BENNETT, SONS & SHEARS,

Engineers, Coppersmiths, and Millwrights,

SPECIALISTS IN CHEMICAL PLANT.

Laboratories Designed and Fitted Completely.



STEAM ENGINES, STEAM BOILERS, STEAM PUMPS, SHAFTING & GEARING, MILLS (VARIOUS), EDGE RUNNERS, DISINTEGRATORS, HYDRAULIC PRESSES, STIRRERS, COPPER STEAM PANS, PEWTER STEAM PANS, TILTING STEAM PANS, STEAM DRYING TABLES, VACUUM PANS, VACUUM PUMPS, ACETIC ACID STILLS, ALCOHOL STILLS, ALMOND OIL STILLS, AMMONIA STILLS, AQ. DESTIL. APPARATUS, CLOVE OIL STILLS, CARAWAY OIL STILLS, LAVENDER STILLS, MINT STILLS, NITRE STILLS, PORTABLE STILLS, SAL VOLATILE STILLS, SANDAL OIL STILLS, VACUUM STILLS, VACUUM FILTERS, NEW MULTIPLE EFFECT TRANSIT FILM EVAPORATING APPARATUS.

TO PERFUMERS.—DRAWBACK ON PERFUMES.

For Stills for recovery from Pomatum apply,

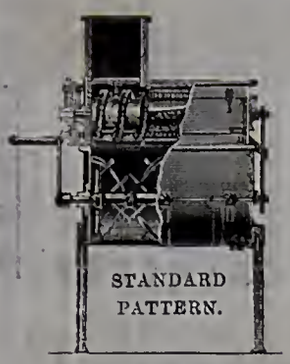
167 Kingsland Road, London, N.E.

TELEGRAMS: "COPPERSMITHS LONDON."

PRICES, SIZES, and CAPACITIES

OF GARDNER'S PATENT COMBINED

"RAPID" SIFTER & MIXER,



STANDARD PATTERN.

Which is a perfect Machine supplying a want long felt by all trades requiring dry and lumpy powders thoroughly broken up, sifted and blended together quickly at one operation and without loss by dust.

STANDARD PATTERN.

Reference Letter	Capacity to do at one Mixing about	Size on Floor, about: Length including Agitator Shaft	Size on Floor, about: Width	Height to top of Hopper, about	PRICE	Extra Sieve bodies covered with plated wire any No. to 30 Mesh to the inch	Price of Pair Fast and Loose Pulleys, and Collar	Weight of Machine in lbs. (exclusive of packing-case) about	Extra strong cases for shipment: Price	Extra strong cases for shipment: Measurement in cubic feet about
		ft. in.	ft. in.	ft. in.						
A	15 lbs.	2 0	1 2	2 5	£8	5/6	12/	94	10/6	9½
B	30 „	2 0	1 10	3 3	11	8/	12/	112	12/6	15
C	60 „	3 8	2 4	5 0	17	11/6	28/	236	15/	31
D	100 „	5 0	2 4	5 0	21	15/6	22/	303	17/6	41½
E	150 „	5 0	2 5	5 2	23	17/	34/	400	21/	47¾
F	200 „	5 0	2 6	5 4	27	19/6	34/	454	24/	55¾
G	300 „	6 9	2 6	5 4	35	23/	40/	700	27/	74½
H	500 „	...	*Particulars and Price on application*				...	...	...	...
I	1100 „ or ½ ton	...								

The time taken to do stated capacity of either size Machine is from 4 minutes, according to material and No. of Sieve used.

Over 150 now at Work.

QUOTATIONS FOR EITHER SIFTERS OR MIXERS SEPARATELY CAN BE OBTAINED.

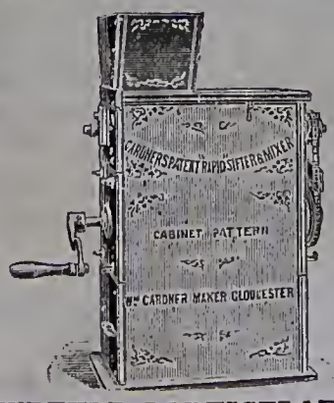
For Sieves finer than No. 30, a slight extra charge is made to cover cost of Wire.

IN ORDERING, STATE No. OF WIRE REQUIRED FOR SIEVE, & PURPOSE MACHINE WILL BE USED FOR

A, B, and C for Hand; D and E for Hand or Power; F, G, and H for Power only. Pulleys extra.

☞ *On referring to Table giving weights it will be seen that my "RAPID" SIFTERS and MIXERS ARE NOT TOYS, but strong, serviceable Machines, and will stand considerable wear and tear.*

THE "CABINET" PATTERN, although cheaper, has the same capacity and internal mechanism as the "A" and "B" Standard Pattern, and will reduce Lumpy Powders and Sift and Mix quite as well and as fast.



SPECIALLY ADAPTED for COUNTER USE

PRICES:

Reference Letter, A, to do at one mixing 15 lbs. **£6**

Reference Letter, B, to do at one mixing 30 lbs. **£8**

Sieves being interchangeable, any number can be supplied with either pattern machine at price given.

TESTIMONIALS, AND ALL FURTHER PARTICULARS, MAY BE OBTAINED FROM

WM. GARDNER, Patentee and Manufacturer, **SOUTHGATE ST., GLOUCESTER.**

REGISTERED TELEGRAPHIC ADDRESS: "GARDNER GLOUCESTER."

GOLD MEDAL

JAMAICA EXHIBITION.

A PURE AND PERFECT ARTICLE FOR

Teeth, Gums, and Breath.

PURILINE

REGISTERED

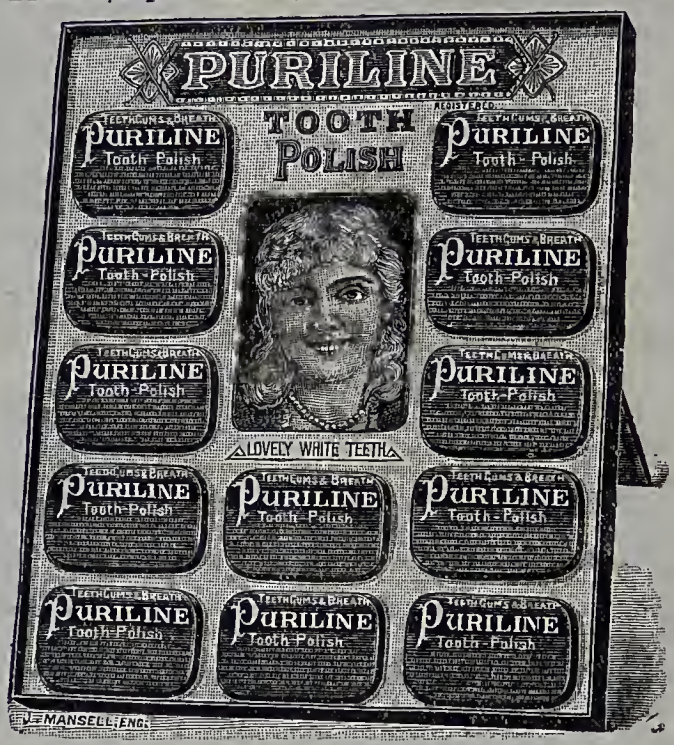
TOOTH-POLISH

Will purify and beautify the Teeth with a pearly whiteness; polish the enamel; prevent tartar; destroy all living germs, and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use. Price One Shilling, in handsome Enamel Box.

The POPULAR DENTIFRICE, which Sells at Sight,

Handsomely put up in Show-cases, as here shown. Printed in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.



The Court Circular says:—"'Puriline' emanates from the laboratory of 'Bunter's Nervine' fame. Bunter's previous preparations for the teeth have received such high encomiums from medical men that it is not surprising that this latest production should have received the recognition and approval of those best qualified to pronounce on its merits."

H. M. Stanley, D.C.L., LL.D., the great African explorer, says:—"I use 'Puriline Tooth Polish and Wash'; am much pleased with both."

The Countess of Rosslyn writes:—"Have been recommended to use your Dentifrice, called 'Puriline.' It is extremely nice; please send me six more."

Show-cards and Handbills supplied by

A. WILSON, 422 Clapham Road, LONDON, S.W.

Proprietor of "Bunter's Nervine," "Dentine," and "Puriline."

Mrs. Mary King-Parks, Author of "Morning of Life," &c., &c.—"It is a fact that gritty tooth-powders undoubtedly are the cause of much damage, and should be carefully avoided. The proprietor of 'Bunter's Nervine' and 'Dentine' has lately introduced a new dentifrice called 'Puriline Tooth Polish,' and 'Puriline Tooth-Wash.' The 'Polish' is non-gritty and delightfully perfumed, very economical in use. The 'Wash' is a foaming liquid dentifrice and mouth-wash, very refreshing. These are high-class articles, and price very moderate."

Pictorial World says:—"The appearance of 'Puriline,' by the proprietor of 'Bunter's Nervine,' is doubly welcome. We use it daily, and like it much; it polishes the enamel, renders the teeth snowy white, and breath deliciously fragrant, and is most comforting to tender gums. It is most handsomely got up, plenty for money. Most convenient for children and travellers. Cannot be upset like soft paste and powder. No mess, no grit, nothing deleterious. It must be a great success when known."

St. Stephen's Review.—"'Puriline' is strongly recommended. It is not only a dentifrice, but a tooth-polish, which, in addition to making the teeth pearly white, strengthens and hardens the gums, and prevents tartar and decay. It is put up in an artistically enamelled little box, which is an acceptable accessory of the dressing-table."

Andrew Wilson, M.D., F.R.S.—"'Puriline Tooth Polish' will commend itself to that large class of persons who discard tooth-powders; it possesses all the properties of a tooth-cleanser and a mouth-detergent."

The Family Doctor says:—"'Puriline' is a dental preparation of rare excellence for the Teeth, Gums, and Breath. It is enclosed in a highly-finished everlasting box, containing enough for three or four months; a wonderful shilling's worth."

The Lady says:—"'Puriline' is remarkably efficacious for the teeth and gums; is also, on account of its aromatic character, a splendid thing for rendering the breath fragrant. Like all Bunter's preparations for the teeth, it has met with the recognition of medical men, and can be safely recommended."

An Original Case of GAYETTY'S PAPER contains 50 Packets, each Packet 500 Sheets.

GAYETTY'S MEDICATED PAPER.

CAUTION!

The original and only genuine Gayetty's Medicated Paper is prepared by B. T. Hoogland's Sons, New York, and has a facsimile signature of the inventor, Jos. C. Gayetty, and B. T. Hoogland, upon every package.

Every sheet of the genuine paper has the water-mark of Gayetty's Paper woven in the sheet, and when held to the light can be seen. Any infringement of the Trade-mark and invention will be vigorously prosecuted. The original Gayetty's Paper was invented and introduced to the public by Joseph C. Gayetty in the year 1857.

B. T. HOOGLAND'S SONS, Sole Proprietors, NEW YORK, U.S.

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Macfarlan's **PURE CHLOROFORM** Macfarlan's

A definite Chemical Compound, answering B.P. and all Official Tests,

Has obtained the confidence of the most eminent Surgeons, has been used successfully for many years in the Edinburgh Royal Infirmary, in the Edinburgh Royal Maternity and Simpson Memorial Hospital, and in the most important Institutions both at home and abroad.

Obtainable from Wholesale and Export Houses, or direct from the Manufacturers,

J. F. MACFARLAN & CO.

Edinburgh Address: **17 & 18 NORTH BRIDGE.** London Address: **71 COLEMAN ST., E.C.**

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WILLIAM FOX & SONS,

WHOLESALE DRUGGISTS, &c.,

109 & 111 Bethnal Green Road, London, N.E.

Cabinet Varnishes, Polishes, Glaze, Finishing Spirit, Glues, Wood Stains, Gums, Resins, Shellacs.

PRICES FORWARDED ON APPLICATION. TELEPHONE NO. 1499

COX'S TASTELESS PILLS

(Patent dated April 13th, 1854.)

Catalogues with over 800 forms sent POST FREE on application.

Many Pills made in imitation of ours pass through the system unaltered.

Pil. Ferri, P.B. (Blaud), if properly made, are Green, not Brown.

ARTHUR H. COX & CO.

"The Original Makers of Tasteless Pills," **BRIGHTON.**

Telegraphic Address—"COX BRIGHTON."

TOWLE'S PENNYROYAL & STEEL PILLS FOR FEMALES.

Quickly correct all irregularities, remove all obstructions, and relieve the distressing symptoms so prevalent with the sex.

NOTICE.

Mr. E. T. TOWLE, of Dryden Street, Nottingham, Chemist and Druggist, begs to inform the trade and the public that he is possessed of the sole right to manufacture and sell Towle's Pennyroyal and Steel Pills, and no other person or firm is entrusted with such business.

All orders to be addressed to Mr. E. T. Towle, or to his recognised agents.

(Signed) EDWD. T. TOWLE, Nottingham.

CAUTION.—Immediate proceedings will be taken against all persons pirating the Title, Name, or Trade Mark.

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REFINERS OF BENZOLINE AND NAPHTHA DISTILLERS,

HOPE CHEMICAL WORKS, HACKNEY WICK, LONDON, E.

PETROLEUM OIL of best Brands; WATER WHITE OIL (high test); CLEANING SPIRIT (for Dyers' Use); BURNING NAPHTHA and SOLVENT NAPHTHA; GASOLINE (sp. gr. ·650); ditto, ·680 (for enriching gas); BENZINE (sp. gr. ·730); BENZOLE, CARBURINE, AUTOLINE, APOKATHARTIKON (Universal Cleaning Spirit), &c., &c.

PETROLEUM BARRELS ALWAYS PURCHASED, DELIVERED AT ANY RAILWAY STATION OR WHARF IN LONDON.

PETROLEUM JELLY

WHITE, RED AND YELLOW - BEST AND PUREST.

TRADE MARK. S L

CONFORMS TO ALL REQUIREMENTS OF B.P.

CHEAPER AND EQUAL TO VASELINE, AND PRONOUNCED BY THE MEDICAL PROFESSION TO BE UNSURPASED.

Tins of all sizes, from 1 to 10 lbs.; Iron or Wood Kegs, ¼, ½, and 1 cwt.; Barrels about 3 cwt., &c. Samples and prices on application, stating packages and quantities required, to the Manufacturers—

SNOWDON, SONS & CO., WEST FERRY ROAD, MILLWALL, LONDON, E.

THE WANT OF THE DAY!

NO MORE SOFT LINEN WHEN STARCHED.

Used in the Royal Laundries.

Should be used in Every House.

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces, &c. It does not stick to spider-web like materials.

CRITCHLEY'S STARCH GLOSS

REGISTERED No. 40,376.

Once Tried, Always Wanted.

Makes Old Linen like New.

From the Chief Laundress to H.R.H. the Prince of Wales:—West Newton, near Lynn, Norfolk, Aug. 29, 1879. Sir,—Having tried your "Starch Gloss," I certainly think it a great improvement—far superior to any I have tried. Yours truly,
To Mr. Critchley. E. Elder.

Sold by Chemists and Druggists, Grocers, Oilmen, &c., in Packets at 1d., 3d., 6d., and 1s. each.

PREPARED ONLY BY

T. CRITCHLEY, CHEMIST AND WHOLESALE DRUGGIST, **BLACKBURN.**

LONDON DEPOT—2 BEECH STREET, E.C.

AS A POLISH THE CLEANEST, BRIGHTEST, AND BEST.

PYN-KA

THE POLISHING TABLET (Unsurpassed). AWARDED GOLD MEDAL.

Cleans with a Brilliant Polish Brass, Copper, Silver, Gold, White and other Metal, Electroware, Glassware, and other domestic articles. For Restaurants, Hotels, Bars, and Bicyclists.

TESTIMONIAL FROM A LADY.—"Your 'PYN-KA' Sample is the best I have tried, and we shall use no other cleaning preparation in our house. It will, I am convinced, supersede all other Polishing Pastes."

For Wholesale Terms apply to the Sole Vendors— **THE PYN-KA SYNDICATE, LIMITED, 41 LORD ST., LIVERPOOL.**

43 Highest Awards over all Competitors throughout the World.

SEABURY & JOHNSON,

ORIGINAL MANUFACTURERS OF

PHARMACOPŒIAL AND SURGICAL PLASTERS

IN RUBBER COMBINATION,

ANTISEPTIC DRESSINGS AND ABSORBENTS, &c.

Manufacturers of PLASTERS of every Description.

Adhesive, Breast, Bunion, Corn, Court, Dental, Dermatological, Homœopathic, Isinglass, Kid, Medicinal, Mustard, Pharmacopœial and Surgical, &c. *In Rubber Combination, plain or porous, and spread on any material required.*

Manufacturers of ABSORBENT BANDAGES, COTTONS, GAUZES, LINT, WOOLS of every description.

Antiseptic, Plain and Medicated, Benzoated, Borated, Carbolated, Cocsine, Corrosive Sublimate, Eucalyptol, Hydronaphthol, Iodized, Iodoform, Morphia, Naphthaline, Salicylated, Styptic, Tannin, Thymol, &c.

In all our preparations the percentage of medication is based upon the weight of the finished product.

Manufacturers of OILED SILK, MEAD'S DRESSING PAPER,

OILED MUSLIN, OILED PAPER, &c., for Hospital Purposes.

Antiseptic Pellets. Corrosive Sublimate, in bottles, 9/, 16/, 30/ doz. bots.

Adhesive Strips. DR. PENNY'S Adjustable (12 in a box), 24/ per doz.

Ear Blisters. Right or Left, 2/ per doz.

Darby's Dental Capsicum Plasters.
(In boxes of 80 Plasters, 36/ per dozen.)

Court Plasters, in 50 Varieties, from 4/ gross to 40/ dozen.

Mead's Rubber Adhesive Plaster.

In 5-yard rolls, 12 inches wide, 5/ each. In 1-yard rolls, 7 inches wide, 14/ per dozen.

10-YARD SPOOLS—	Width	¼	½	1	1½	2	2½	3 inches.
	Price	12/	14/	16/	20/	24/	28/	32/ per dozen.
5 " "	"	9/	10/	12/	15/	18/	21/	24/ "

S. & J. Surgeon's Rubber Adhesive Plaster

Has almost entirely supplanted the old form of Adhesive, by reason of its superiority in all essential qualities. PLAIN or POROUS.

In 5-yard rolls, 7 inches wide, 6/6 each. In 1-yard rolls, 7 inches wide, 17/ per dozen.

10-YARD SPOOLS—	Width	½	1	1½	2	2½	3 inches
	Price	18/	24/	30/	40/	50/	60/ per dozen.

Belladonna Plasters—Porous and Plain, 5 × 7½ inches, 54/ per gross; 7 × 12 inches, 10/ per dozen.

1-yard rolls, 7 inches wide, 27/6 per doz. 5-yard rolls, 5 inches wide, 102/; 7 inches wide, 126/ per doz.
" " on red felt, 36/ per doz. 5 × 7½ inches, 6/ per doz. 7 × 12 inches, 12/ per doz. On swansdown, 36/ per doz. yards.

Belladonna Breast Plasters, 6 inches, 4/6; 7 inches, 6/; 8 inches, 7/6 per dozen.

Kid Plasters, long shape, 5/, 6/, and 7/ per dozen.

Camphorated Blister Plaster, 27/6 per dozen yards.

Strengthening Plasters—Porous, 5 × 7½ inches, 30/ per gross; 7 × 12 inches, 72/ per gross.

1-yard rolls, 5 inches wide, 14/; 7 inches wide, 27/6 dozen yards. 5-yard rolls, 5 inches wide, 66/; 7 inches wide, 96/ per dozen.
On red felt, " " 36/ " " " " 12/6; " " 14/ each;
" 5 × 7½ inches, 60/ gross; 7 × 12 inches, 144/ gross.

SUBJECT TO DISCOUNT. PRICE LIST ON APPLICATION.

Supplies may be obtained through any of the Wholesale Houses by ordering SEABURY'S.

OR FROM THE SOLE MANUFACTURERS—

SEABURY & JOHNSON, Manufacturing Chemists, NEW YORK.

46 JEWIN STREET, LONDON, E.C.

BEWARE OF SPURIOUS IMITATIONS.

ORIGINALITY AND RELIABILITY.

QUALITY IS OF FIRST IMPORTANCE.

CABLE AND TELEGRAPHIC ADDRESSES:—
"Blondeau, London"
"Blondeau, New York."

TELEPHONE No. 7659.

AMERICAN ADDRESS:—
73 and 75 Watts Street,
New York, U.S.A.

"VINOLIA" CASH PRICE LIST.

BLONDEAU et CIE., RYLAND ROAD, LONDON, N.W.

TERMS:

Our Terms are strictly Cash, i.e., Cash must accompany order, or be sent on receipt of Invoice.

	Retail Each. s.	d.	Trade Prices per Doz. s.	d.
VINOLIA, small stamped	1	9	16	9
" " unstamped	1	6	13	9
(Vinolia unstamped is for Compounding Prescriptions only)				
" medium stamped	3	6	33	4
" " unstamped	3	0	27	4
" large stamped	6	0	57	8
" " unstamped	5	0	45	8
VINOLIA POWDER, small...	1	9	16	0
" " medium	3	6	32	0
" " large...	6	0	54	9
Vinolia Powder is prepared in white, pink, and cream tints.				
VINOLIA DENTIFRICE (English)	2	6	22	10
" " (American)	1	6	13	9
VINOLIA SOAP (**Premier**, for the "**Million**"), per box of 3 Tablets	1	0	9	2
" " " " " 12 "	4	0	36	7
Each tablet enveloped in wrapper of artistic design.				
" " (Floral), per Tablet, in Cartoon	0	6	4	7
Put up in boxes containing one dozen tablets each in cartoon.				
" " (Balsamic, Medical) per box of 3 Tablets ...	2	0	18	4
" " (Otto of Rose, Toilet), " " ...	2	6	22	10
" " (Vestal), per box of 3 Tablets	7	6	68	6
VINOLIA SHAVING SOAP (Toilet), Sticks in silver-metal cases, small ...	1	0	9	2
" " " " " " medium ...	1	6	13	9
" " " " " " large ...	2	6	22	10
" " " " Flat cakes in porcelain-lined metal boxes ...	2	0	18	4
" " " (Vestal), Sticks in silver-metal cases	2	6	22	10
" " " " Flat Cakes " boxes	4	6	41	6
VINOLIA SHAVING FOAM (Toilet), in collapsible tubes ...	1	6	13	9
" " " (Vestal), " " ...	2	6	22	10
"LYPSYL" (a Coraline Emollient for the lips)	1	0	9	2
" " " " in silver-metal tubes	0	6	4	7

MINIATURE SAMPLES:

VINOLIA SOAP (Otto of Rose, Toilet)	0	1½	1	0
" " (Balsamic, Medical)	0	1½	1	0
" DENTIFRICE (English)	0	3	2	0
" " (American)	0	2	1	4
VINOLIA POWDER	0	3	2	0

Note.—These miniature samples can be obtained on artistic cards, the cards only being supplied free of charge, the whole forming a most attractive and profitable addition to the Chemist's counter.

Orders under £2 Net.
£2 to £5 Order—special Cash Discount of 5 per cent. off above prices.
£5 Order and upwards " " " 10 " " "

Carriage paid on orders amounting to £5 and upwards to customers who have signed or who sign our cutting agreement.
THESE TERMS ARE NOT AVAILABLE TO THOSE WHO SELL BELOW OUR STIPULATED MINIMUM CUTTING PRICES.

☛ *"Vinolia" is put up in Special Boxes for Hot Countries.*

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